



Suntracer KNX pro

Weather Station

Item number 70900



elsner

Installation and Adjustment

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This manual is amended periodically and will be brought into line with new software releases. The change status (software version and date) can be found in the contents footer. If you have a device with a later software version, please check **www.elsner-elektronik.de** in the menu area "Service" to find out whether a more up-to-date version of the manual is available.

Clarification of signs used in this manual



Safety advice.



Safety advice for working on electrical connections, components, etc.

DANGER!

... indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.

WARNING!

... indicates a potentially hazardous situation which may lead to death or severe injuries if it is not avoided.

CAUTION!

... indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.



ATTENTION! ... indicates a situation which may lead to damage to property if it is not avoided.

ETS

In the ETS tables, the parameter default settings are marked by underlining.

1. Safety and operating instructions



Installation, testing, operational start-up and troubleshooting should only be performed by an authorised electrician.



CAUTION!
Live voltage!

- Inspect the device for damage before installation. Only put undamaged devices into operation.
 - Comply with the locally applicable directives, regulations and provisions for electrical installation.
 - Immediately take the device or system out of service and secure it against unintentional switch-on if risk-free operation is no longer guaranteed.
-

Use the device exclusively for building automation and observe the operating instructions. Improper use, modifications to the device or failure to observe the operating instructions will invalidate any warranty or guarantee claims.

Operate the device only as a fixed-site installation, i.e. only in assembled condition and after conclusion of all installation and operational start-up tasks, and only in the surroundings designated for it.

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

For information on installation, maintenance, disposal, scope of delivery and technical data, please refer to the installation instructions.

2. Description

The **Weather Station Suntracer KNX pro** for the KNX building bus system measures temperature, wind speed, wind direction, brightness air humidity and air pressure. It recognises precipitation and receives the GPS signal for time and location. In addition, using location coordinates and the time, it calculates the exact position of the sun (azimuth and elevation).

All values can be used for the control of limit dependent switching outputs. States can be linked via AND logic gates and OR logic gates. Multi-function modules change input data as required by means of calculations, querying a condition, or converting the data point type.

The integrated shade control system allows intelligent sun protection control of up to 12 façades.

Functions:

- **Brightness measurement** (current light strength). Measurement with 5 separate sensors, output of the current highest value (one maximum value). Separate limit values for night
- **GPS receiver**, outputting the current time and location coordinates. The **Weather Station Suntracer KNX pro** also computes the position of the sun (azimuth and elevation)
- **Shade control** for up to 12 façades with slat tracking and shadow edge tracking
- **Wind measurement**: Measurement of wind strength and wind direction (0°-360°) by ultrasound
- **Precipitation detection**: The sensor surface is heated, so that only drops and flakes are recognised as precipitation, but not mist or dew. When the rain or snow stops, the sensor is soon dry again and the precipitation warning ends
- **Temperature measurement. Calculation of the felt temperature (considering wind strength and air humidity)**
- Frost protection for shading systems
- **Air humidity measurement** (relative, absolute)
- Bus message, whether the values of temperature and humidity are within the **comfort field** (DIN 1946). Calculation of the **dew point**
- **Air pressure measurement**
- **Weekly and calendar time switch**: All time switching outputs can be used as communication objects.
The **weekly time switch** has 24 periods. Each period can be configured either as an output or as an input. If the period is an output, then the switching time is set per parameter or per communication object.
The **calendar time switch** has 4 periods. Two on/off switching operations, which are executed daily, can be set for each period
- **Switching outputs** for all measured and computed values. Threshold values can be adjusted per parameter or via communication objects
- **8 AND and 8 OR logic gates**, each with 4 inputs. All switching events as well as 16 logic inputs (in the form of communications objects) can be used as inputs for the logic gates. The output of each gate can be configured optionally as 1-bit or 2 x 8-bit
- **8 multi-function modules** (computers) for changing the input data by calculations, by querying a condition or by converting the data point type
- **Summer compensation** for cooling systems. A characteristic curve matches the target temperature in the room to the external temperature and sets the minimum and maximum target temperature values.

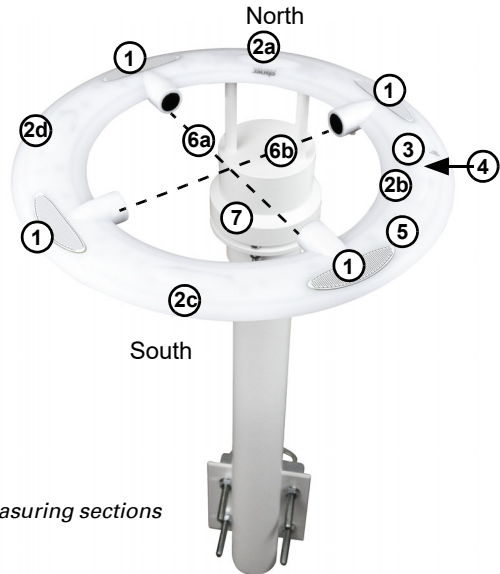
2.1. Notes on wind measurement

Due to very heavy rain, hail or snowfall, the ultrasonic signal can be attenuated to such an extent that no correct measured values can be output. In this case, a wind sensor error is sent and the wind speed is set to the maximum value of 35 m/s for safety reasons.

2.2. Position of the sensors

Fig. 1

- 1 Precipitation sensors (4 surfaces with conductor tracks)
- 2 Brightness sensors under plastic domes, directed towards
 - a - North
 - b - East
 - c - South
 - d - West and up (sky)
- 3 Pressure sensor
- 4 Magnet PRG button (magnetic switch) for addressing the device
- 5 GPS module
- 6 Wind sensor with ultrasonic measuring sections
 - a - North-east/South-west
 - b - South-east/North-west
- 7 Temperature and humidity sensor in the base



3. Start-up

Configuration is made using the KNX software ETS. The **product file** can be downloaded from the Elsner Elektronik website on www.elsner-elektronik.de in the "Service" menu.

After the bus voltage has been applied, the device will enter an initialisation phase lasting approx. 8 seconds. During this phase no information can be received or sent via the bus.

3.1. Address the device on the bus

The equipment is delivered with the bus address 15.15.255. A different address can be programmed in the ETS by overwriting the address 15.15.255 or by holding a magnet on the magnetic PRG button.

4. Transfer protocol

Units:

Temperatures in degrees Celsius

Brightness in Lux

Wind in metres per second

Air pressure in Pascal

Azimuth and elevation in degrees

4.1. List of all communications objects

Abbreviation flags:

C Communication

R Read

W Write

T Transmit

U Update

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------|----------|--------------------------------|---------|
| 1 | Software version | Output | R-CT | [217.1] DPT_Version | 2 Bytes |
| 104 | GPS malfunction (0: OK 1: NOK) | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 105 | Date / time | Output | RWC T | [19.1] DPT_Date- Time | 8 Bytes |
| 106 | Date | Output | RWC T | [11.1] DPT_Date | 3 Bytes |
| 107 | Time | Output | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 108 | Date and time query | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 110 | Location: Northern latitude [°] | Output | R-CT | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 111 | Location: Eastern longitude [°] | Output | R-CT | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 114 | Rain: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 115 | Rain: Switching output with fixed delays | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 116 | Rain: Switch delay to rain | Input | -WC- | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 117 | Rain: Switch delay to no rain | Input | -WC- | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 121 | Temperature sensor: Malfunction | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 122 | Temperature sensor: External measured value | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 123 | Temperature sensor: Measured value | Output | R-CT | [9.1] DPT_Val- ue_Temp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|-------------------------|---------|
| 124 | Temperature sensor: Switching output, total | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 125 | Temperature sensor: Min./max. measurement query | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 126 | Temperature sensor: Minimum measurement | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 127 | Temperature sensor: Maximum measurement | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 128 | Temperature sensor: Min./max. reading reset | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 129 | Temp. sensed: Measured value | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 131 | Temp. threshold value 1: Absolute value | Input / Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 132 | Temp. threshold value 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 133 | Temp. threshold value 1: Switching delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 134 | Temp. threshold value 1: Switching delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 135 | Temp. threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 136 | Temp. threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 138 | Temp. threshold value 2: Absolute value | Input / Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 139 | Temp. threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 140 | Temp. threshold value 2: Switching delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 141 | Temp. threshold value 2: Switching delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 142 | Temp. threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 143 | Temp. threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 145 | Temp. threshold value 3: Absolute value | Input / Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 146 | Temp. threshold value 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 147 | Temp. threshold value 3: Switching delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 148 | Temp. threshold value 3: Switching delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 149 | Temp. threshold value 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|-------------------------|---------|
| 150 | Temp. threshold value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 152 | Temp. threshold value 4: Absolute value | Input / Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 153 | Temp. threshold value 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 154 | Temp. threshold value 4: Switching delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 155 | Temp. threshold value 4: Switching delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 156 | Temp. threshold value 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 157 | Temp. threshold value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 161 | Frost alarm | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 175 | Brightness sensor measured value | Output | R-CT | [9.4] DPT_Value_Lux | 2 Bytes |
| 181 | Bright. threshold value 1: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 182 | Bright. threshold value 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 183 | Bright. threshold value 1: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 184 | Bright. threshold value 1: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 185 | Bright. threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 186 | Bright. threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 188 | Bright. threshold value 2: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 189 | Bright. threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 190 | Bright. threshold value 2: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 191 | Bright. threshold value 2: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 192 | Bright. threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 193 | Bright. threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 195 | Bright. threshold value 3: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 196 | Bright. threshold value 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 197 | Bright. threshold value 3: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 198 | Bright. threshold value 3: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------------|-------|-------------------------|---------|
| 199 | Bright. threshold value 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 200 | Bright. threshold value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 202 | Bright. threshold value 4: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 203 | Bright. threshold value 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 204 | Bright. threshold value 4: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 205 | Bright. threshold value 4: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 206 | Bright. threshold value 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 207 | Bright. threshold value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 209 | Bright. threshold value 5: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 210 | Bright. threshold value 5: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 211 | Bright. threshold value 5: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 212 | Bright. threshold value 5: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 213 | Bright. threshold value 5: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 214 | Bright. threshold value 5: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 216 | Bright. threshold value 6: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 217 | Bright. threshold value 6: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 218 | Bright. threshold value 6: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 219 | Bright. threshold value 6: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 220 | Bright. threshold value 6: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 221 | Bright. threshold value 6: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 223 | Bright. threshold value 7: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 224 | Bright. threshold value 7: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 225 | Bright. threshold value 7: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 226 | Bright. threshold value 7: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------------|-------|-------------------------|---------|
| 227 | Bright. threshold value 7: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 228 | Bright. threshold value 7: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 230 | Bright. threshold value 8: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 231 | Bright. threshold value 8: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 232 | Bright. threshold value 8: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 233 | Bright. threshold value 8: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 234 | Bright. threshold value 8: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 235 | Bright. threshold value 8: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 293 | Twilight brightness threshold value 1: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 294 | Twilight brightness threshold 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 295 | Twilight brightness threshold 1: delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 296 | Twilight brightness threshold 1: delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 297 | Twilight brightness threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 298 | Twilight brightness threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 300 | Twilight brightness threshold value 2: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 301 | Bright. twilight threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 302 | Twilight brightness threshold 2: delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 303 | Twilight brightness threshold 2: delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 304 | Twilight brightness threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 305 | Twilight brightness threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 307 | Twilight brightness threshold 3: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 308 | Twilight brightness threshold 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------------|-------|---------------------------------------|---------|
| 309 | Twilight brightness threshold 3: delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 310 | Twilight brightness threshold 3: delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 311 | Twilight brightness threshold 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 312 | Twilight brightness threshold 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 314 | Twilight brightness threshold 4: Absolute value | Input / Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 315 | Twilight brightness threshold 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 316 | Twilight brightness threshold 4: delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 317 | Twilight brightness threshold 4: delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 318 | Twilight brightness threshold 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 319 | Twilight brightness threshold 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 331 | Night: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 332 | Night: Switching delay on night | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 333 | Night: Switching delay on day | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 341 | Sun position: Azimuth | Output | R-CT | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 342 | Sun position: Elevation | Output | R-CT | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 343 | Sun position: Azimuth | Output | R-CT | [9] 9.xxx | 2 Bytes |
| 344 | Sun position: Elevation | Output | R-CT | [9] 9.xxx | 2 Bytes |
| 351 | Wind sensor: Malfunction | Setting | R-CT | [1.1] DPT_Switch | 1 Bit |
| 352 | Wind sensor: Measurement [m/s] | Output | R-CT | [9.5] DPT_Value_Wsp | 2 Bytes |
| 353 | Wind sensor: Measurement [Beaufort] | Output | R-CT | [20.14] DPT_Beaufort_Wind_Force_Scale | 1 Byte |
| 354 | Wind sensor: Measurement, max. query | Input | -WC- | [1] 1.xxx, [1.17] DPT_Trigger | 1 Bit |
| 355 | Wind sensor: Maximum measurement [m/s] | Output | R-CT | [9.5] DPT_Value_Wsp | 2 Bytes |
| 356 | Wind sensor: Maximum measurement [Beaufort] | Output | R-CT | [20.14] DPT_Beaufort_Wind_Force_Scale | 1 Byte |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|---|---------|
| 357 | Wind sensor: Measured value max. reset | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 361 | Wind threshold value 1: Absolute value | Input / Output | RWC T | [9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh | 2 Bytes |
| 362 | Wind threshold value 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 363 | Wind threshold value 1: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 364 | Wind threshold value 1: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 365 | Wind threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 366 | Wind threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 367 | Wind threshold value 2: Absolute value | Input / Output | RWC T | [9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh | 2 Bytes |
| 368 | Wind threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 369 | Wind threshold value 2: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 370 | Wind threshold value 2: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 371 | Wind threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 372 | Wind threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 373 | Wind threshold value 3: Absolute value | Input / Output | RWC T | [9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh | 2 Bytes |
| 374 | Wind threshold value 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 375 | Wind threshold value 3: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 376 | Wind threshold value 3: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 377 | Wind threshold value 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 378 | Wind threshold value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 379 | Wind threshold value 4: Absolute value | Input / Output | RWC T | [9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|--------------------------|---------|
| 380 | Wind threshold value 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 381 | Wind threshold value 4: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 382 | Wind threshold value 4: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 383 | Wind threshold value 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 384 | Wind threshold value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 391 | Humidity sensor: Malfunction | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 394 | Humidity sensor: External measured value | Input | -SKÜ | [9.7] DPT_Value_Humidity | 2 Bytes |
| 395 | Humidity sensor: Measured value | Output | R-CT | [9.7] DPT_Value_Humidity | 2 Bytes |
| 396 | Humidity sensor: Switching output, total | Output | R-CT | [9.7] DPT_Value_Humidity | 2 Bytes |
| 397 | Humidity sensor: Min./max. measurement query | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 398 | Humidity sensor: Minimum measurement | Output | R-CT | [9.7] DPT_Value_Humidity | 2 Bytes |
| 399 | Humidity sensor: Maximum measurement | Output | R-CT | [9.7] DPT_Value_Humidity | 2 Bytes |
| 400 | Humidity sensor: Min./max. reading reset | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 411 | Humidity threshold value 1: Absolute value | Input / Output | RWC T | [9.7] DPT_Value_Humidity | 2 Bytes |
| 412 | Humidity threshold value 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 413 | Humidity threshold value 1: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 414 | Humidity threshold value 1: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 415 | Humidity threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 416 | Humidity threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 417 | Humidity threshold value 2: Absolute value | Input / Output | RWC T | [9.7] DPT_Value_Humidity | 2 Bytes |
| 418 | Humidity threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 419 | Humidity threshold value 2: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 420 | Humidity threshold value 2: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 421 | Humidity threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|----------------------------|---------|
| 422 | Humidity threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 423 | Humidity threshold value 3: Absolute value | Input / Output | RWC T | [9.7] DPT_Value_Humidity | 2 Bytes |
| 424 | Humidity threshold value 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 425 | Humidity threshold value 3: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 426 | Humidity threshold value 3: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 427 | Humidity threshold value 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 428 | Humidity threshold value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 429 | Humidity threshold value 4: Absolute value | Input / Output | RWC T | [9.7] DPT_Value_Humidity | 2 Bytes |
| 430 | Humidity threshold value 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 431 | Humidity threshold value 4: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 432 | Humidity threshold value 4: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 433 | Humidity threshold value 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 434 | Humidity threshold value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 461 | Dewpoint: Measured value | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 462 | Coolant temp.: Threshold value | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 463 | Coolant temp.: Actual value | Input | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 464 | Coolant temp.: Offset change (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 465 | Coolant temp.: Offset current | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 466 | Coolant temp.: Switching delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 467 | Coolant temp.: Switching delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 468 | Coolant temp.: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 469 | Coolant temp.: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 471 | Absolute humidity [g/kg] | Output | R-CT | [14.5] DPT_Value_Amplitude | 4 Bytes |
| 472 | Absolute humidity [g/m ³] | Output | R-CT | [9] 9.xxx | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------------|-------|----------------------------|----------|
| 474 | Ambient climate status: 1 = comfortable 0 = uncomfortable | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 475 | Ambient climate status: Text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 481 | Air pressure sensor: Malfunction | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 482 | Air pressure sensor: Normal measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 483 | Air pressure sensor: Barometric measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 484 | Air pressure sensor: Min./max. measurement query | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 485 | Air pressure sensor: Min. normal measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 486 | Air pressure sensor: Min. barometric measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 487 | Air pressure sensor: Max. normal measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 488 | Air pressure sensor: Max. barometric measurement [Pa] | Output | R-CT | [14.58] DPT_Value_Pressure | 4 Bytes |
| 489 | Air pressure sensor: Min./max. reading reset | Input | -WC- | [1.17] DPT_Trigger | 1 Bit |
| 490 | Air pressure sensor: Pressure range text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 491 | Air pressure threshold value 1: Absolute value | Input / Output | RWC T | [14.58] DPT_Value_Pressure | 4 Bytes |
| 492 | Air pressure threshold value 1: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 493 | Air pressure threshold value 1: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 494 | Air pressure threshold value 1: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 495 | Air pressure threshold value 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 496 | Air pressure threshold value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 497 | Air pressure threshold value 2: Absolute value | Input / Output | RWC T | [14.58] DPT_Value_Pressure | 4 Bytes |
| 498 | Air pressure threshold value 2: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 499 | Air pressure threshold value 2: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 500 | Air pressure threshold value 2: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|----------------|-------|----------------------------|---------|
| 501 | Air pressure threshold value 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 502 | Air pressure threshold value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 503 | Air pressure threshold value 3: Absolute value | Input / Output | RWC T | [14.58] DPT_Value_Pressure | 4 Bytes |
| 504 | Air pressure threshold value 3: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 505 | Air pressure threshold value 3: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 506 | Air pressure threshold value 3: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 507 | Air pressure threshold value 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 508 | Air pressure threshold value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 509 | Air pressure threshold value 4: Absolute value | Input / Output | RWC T | [14.58] DPT_Value_Pressure | 4 Bytes |
| 510 | Air pressure threshold value 4: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 511 | Air pressure threshold value 4: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 512 | Air pressure threshold value 4: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 513 | Air pressure threshold value 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 514 | Air pressure threshold value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 595 | Summer compensation: Outdoor temperature | Input | -SKÜ | [9.1] DPT_Value_Temp | 2 Bytes |
| 596 | Summer compensation: Setpoint | Output | R-CT | [9.1] DPT_Value_Temp | 2 Bytes |
| 597 | Summer compensation: Block (1 = Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 609 | Fac. Wind measurement 1 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 610 | Fac. Wind measurement 2 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 611 | Fac. Wind measurement 3 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 612 | Fac. Wind measurement 4 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 613 | Fac. Wind measurement 5 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|--------------|----------|-------------------------|---------|
| 614 | Fac. Wind measurement 6 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 615 | Fac. Wind measurement 7 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 616 | Fac. Wind measurement 8 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 617 | Fac. Wind measurement 9 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 618 | Fac. Wind measurement 10 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 619 | Fac. Wind measurement 11 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 620 | Fac. Wind measurement 12 in m/s | Input | -SKÜ | [9.5] DPT_Value_Wsp | 2 Bytes |
| 621 | Fac. Wind automation blocking duration in min. | Input/Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 622 | Fac. Wind automation blocking duration in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 623 | Fac. Rain auto. Delay in minutes | Input/Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 624 | Fac. Rain auto. Delay in minutes (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 625 | Fac. Twilight threshold value in kLux | Input/Output | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 626 | Fac. Twilight threshold value in Lux (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 627 | Fac. Outside temperature (°C) | Input | -SKÜ | [9.1] DPT_Value_Temp | 2 Bytes |
| 628 | Fac. Heat protection threshold value in °C | Input/Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 629 | Fac. Frost alarm threshold value in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 630 | Fac. Frost alarm start temperature in °C | Input/Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 631 | Fac. Frost alarm start temperature in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 632 | Fac. Frost alarm start delay in hours | Input/Output | RWC T | [7.7] DPT_TimePeriodHrs | 2 Bytes |
| 633 | Fac. Frost alarm start temperature in hours (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 634 | Fac. Frost alarm stop temperature in °C | Input/Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 635 | Fac. Frost alarm stop temperature in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|---------------------------|----------|
| 636 | Fac. Frost alarm stop delay in hours | Input/ Output | RWC T | [7.7] DPT_TimePeriodHrs | 2 Bytes |
| 637 | Fac. Frost alarm stop delay in hours (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 638 | Fac. Pyranometer measured value 1 in W/m ² | Input | -SKÜ | [9.22] DPT_PowerDensity | 2 Bytes |
| 639 | Fac. Pyranometer measured value 1 in W/m ² | Input | -SKÜ | [14.5] DPT_ValueAmplitude | 4 Bytes |
| 640 | Fac. Pyranometer measured value 2 in W/m ² | Input | -SKÜ | [9.22] DPT_PowerDensity | 2 Bytes |
| 641 | Fac. Pyranometer measured value 2 in W/m ² | Input | -SKÜ | [14.5] DPT_ValueAmplitude | 4 Bytes |
| 642 | Fac. Pyranometer measured value 3 in W/m ² | Input | -SKÜ | [9.22] DPT_PowerDensity | 2 Bytes |
| 643 | Fac. Pyranometer measured value 3 in W/m ² | Input | -SKÜ | [14.5] DPT_ValueAmplitude | 4 Bytes |
| 644 | Fac. Pyranometer measured value 4 in W/m ² | Input | -SKÜ | [9.22] DPT_PowerDensity | 2 Bytes |
| 645 | Fac. Pyranometer measured value 4 in W/m ² | Input | -SKÜ | [14.5] DPT_ValueAmplitude | 4 Bytes |
| 648 | Fac. X channel status output (1: activate) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 649 | Fac. X channel name | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 650 | Fac. X channel (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 651 | Fac. X channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 652 | Fac. X channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 653 | Fac. X channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 654 | Fac. X channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 655 | Fac. X channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 656 | Fac. Wind simulation in m/s | Input | RWC- | [9.5] DPT_ValueWsp | 2 Bytes |
| 657 | Fac. Wind extension blocking simulation (1: active) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 658 | Fac. Wind alarm simulation (1: active) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 659 | Fac. Rain simulation (1: active) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 660 | Fac. External temperature in °C simulation | Input | RWC- | [9.1] DPT_ValueTemp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|----------|-------|---------------------------|---------|
| 661 | Fac. Internal temperature in °C simulation | Input | RWC- | [9.1] DPT_Value_Temp | 2 Bytes |
| 662 | Fac. Brightness in Lux simulation | Input | RWC- | [9.4] DPT_Value_Lux | 2 Bytes |
| 663 | Fac. Sun intensity simulation in watts/m ² | Input | RWC- | [9.22] DPT_PowerDensity | 2 Bytes |
| 664 | Fac. Date simulation | Input | RWC- | [11.1] DPT_Date | 3 Bytes |
| 665 | Fac. Time simulation | Input | RWC- | [10.1] DPT_TimeOfDay | 3 Bytes |
| 666 | Fac. Sun direction simulation in °, with date & time | Output | R-CT | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 667 | Fac. Sun height simulation in °, with date & time | Output | R-CT | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 668 | Fac. Sun direction simulation in ° | Input | RWC- | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 669 | Fac. Sun height simulation in ° | Input | RWC- | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 670 | Fac. Reset simulation (1: reset) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 671 | Fac. Sun angle mode simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 672 | Façade 1 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 673 | Fac.1 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 674 | Façade 1 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 675 | Façade 1 wind extension block (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 676 | Façade 1 wind extension block threshold value in m/s | Input | RWC-T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 677 | Façade 1 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 678 | Façade 1 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 679 | Façade 1 wind alarm (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 680 | Façade 1 wind alarm threshold value in m/s | Input | RWC-T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 681 | Façade 1 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 682 | Façade 1 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 683 | Façade 1 frost alarm status (1: On 0: Off) | Output | RWC-T | [1.1] DPT_Switch | 1 Bit |
| 684 | Fac.1 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 685 | Façade 1 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 686 | Fac.1 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|---------|
| 687 | Façade 1 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 688 | Fac.1 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 689 | Fac.1 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 690 | Fac.1 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 691 | Fac.1 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 692 | Fac.1 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 693 | Façade 1 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 694 | Fac.1 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 695 | Façade 1 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 696 | Fac.1 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 697 | Façade 1 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 698 | Fac.1 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 699 | Façade 1 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 700 | Façade 1 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 701 | Façade 1 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 702 | Façade 1 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 703 | Fac.1 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 704 | Fac.1 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 705 | Fac.1 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 706 | Fac.1 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 707 | Façade 1 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 708 | Fac.1 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 709 | Fac.1 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 710 | Fac.1 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|-------------|
| 711 | Fac.1 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 712 | Fac.1 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 713 | Fac.1 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 714 | Fac.1 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 715 | Fac.1 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 716 | Fac.1 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 717 | Fac.1 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 718 | Fac.1 Sun auto. Brightness measure- ment in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 719 | Fac.1 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 720 | Fac.1 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 721 | Fac.1 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 722 | Fac.1 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 723 | Façade 1 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 724 | Façade 1 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 725 | Façade 1 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 726 | Façade 1 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 727 | Façade 1 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 728 | Façade 1 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 729 | Façade 1 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 730 | Fac.1 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 731 | Façade 1 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 732 | Façade 1 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 733 | Façade 1 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|-------------------------|---------|
| 734 | Façade 1 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 735 | Façade 1 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 736 | Façade 1 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 741 | Façade 2 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 742 | Fac.2 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 743 | Façade 2 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 744 | Façade 2 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 745 | Façade 2 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 746 | Façade 2 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 747 | Façade 2 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 748 | Façade 2 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 749 | Façade 2 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 750 | Façade 2 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 751 | Façade 2 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 752 | Façade 2 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 753 | Fac.2 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 754 | Façade 2 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 755 | Fac.2 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 756 | Façade 2 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 757 | Fac.2 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 758 | Fac.2 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_ValueTemp | 2 Bytes |
| 759 | Fac.2 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 760 | Fac.2 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 761 | Fac.2 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 762 | Façade 2 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 763 | Fac.2 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|---------|
| 764 | Façade 2 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 765 | Fac.2 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 766 | Façade 2 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 767 | Fac.2 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 768 | Façade 2 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 769 | Façade 2 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 770 | Façade 2 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 771 | Façade 2 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 772 | Fac.2 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 773 | Fac.2 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 774 | Fac.2 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 775 | Fac.2 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 776 | Façade 2 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 777 | Fac.2 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 778 | Fac.2 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 779 | Fac.2 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 780 | Fac.2 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 781 | Fac.2 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 782 | Fac.2 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 783 | Fac.2 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 784 | Fac.2 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 785 | Fac.2 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 786 | Fac.2 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|----------------------------|-------------|
| 787 | Fac.2 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 788 | Fac.2 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 789 | Fac.2 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 790 | Fac.2 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 791 | Fac.2 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 792 | Façade 2 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 793 | Façade 2 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 794 | Façade 2 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 795 | Façade 2 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 796 | Façade 2 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 797 | Façade 2 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 798 | Façade 2 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 799 | Fac.2 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 800 | Façade 2 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 801 | Façade 2 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 802 | Façade 2 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 803 | Façade 2 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 804 | Façade 2 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 805 | Façade 2 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 810 | Façade 3 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 811 | Fac.3 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 812 | Façade 3 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 813 | Façade 3 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 814 | Façade 3 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 815 | Façade 3 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|--------------------------------|---------|
| 816 | Façade 3 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 817 | Façade 3 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 818 | Façade 3 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Val- ue_Wsp | 2 Bytes |
| 819 | Façade 3 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 820 | Façade 3 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 821 | Façade 3 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 822 | Fac.3 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 823 | Façade 3 rain alarm status (1: On 0: Off) | Output | R-CT | [1] 1.xxx, [1.1] DPT_Switch | 1 Bit |
| 824 | Fac.3 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 825 | Façade 3 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 826 | Fac.3 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 827 | Fac.3 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 828 | Fac.3 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 829 | Fac.3 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 830 | Fac.3 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 831 | Façade 3 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 832 | Fac.3 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 833 | Façade 3 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 834 | Fac.3 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 835 | Façade 3 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 836 | Fac.3 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 837 | Façade 3 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 838 | Façade 3 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 839 | Façade 3 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 840 | Façade 3 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|---------|
| 841 | Fac.3 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 842 | Fac.3 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 843 | Fac.3 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 844 | Fac.3 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 845 | Façade 3 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 846 | Fac.3 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 847 | Fac.3 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 848 | Fac.3 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 849 | Fac.3 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 850 | Fac.3 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 851 | Fac.3 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 852 | Fac.3 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 853 | Fac.3 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 854 | Fac.3 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 855 | Fac.3 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 856 | Fac.3 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 857 | Fac.3 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 858 | Fac.3 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 859 | Fac.3 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 860 | Fac.3 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 861 | Façade 3 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 862 | Façade 3 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|----------------------------|----------|
| 863 | Façade 3 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 864 | Façade 3 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 865 | Façade 3 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 866 | Façade 3 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 867 | Façade 3 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 868 | Fac.3 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 869 | Façade 3 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 870 | Façade 3 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 871 | Façade 3 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 872 | Façade 3 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 873 | Façade 3 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 874 | Façade 3 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 879 | Façade 4 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 880 | Fac.4 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 881 | Façade 4 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 882 | Façade 4 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 883 | Façade 4 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 884 | Façade 4 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 885 | Façade 4 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 886 | Façade 4 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 887 | Façade 4 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 888 | Façade 4 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 889 | Façade 4 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 890 | Façade 4 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 891 | Fac.4 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 892 | Façade 4 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|---------|
| 893 | Fac.4 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 894 | Façade 4 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 895 | Fac.4 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 896 | Fac.4 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 897 | Fac.4 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 898 | Fac.4 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 899 | Fac.4 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 900 | Façade 4 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 901 | Fac.4 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 902 | Façade 4 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 903 | Fac.4 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 904 | Façade 4 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 905 | Fac.4 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 906 | Façade 4 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 907 | Façade 4 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 908 | Façade 4 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 909 | Façade 4 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 910 | Fac.4 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 911 | Fac.4 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 912 | Fac.4 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 913 | Fac.4 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 914 | Façade 4 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 915 | Fac.4 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 916 | Fac.4 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 917 | Fac.4 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|-------------|
| 918 | Fac.4 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 919 | Fac.4 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 920 | Fac.4 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 921 | Fac.4 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 922 | Fac.4 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 923 | Fac.4 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 924 | Fac.4 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 925 | Fac.4 Sun auto. Brightness measure- ment in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 926 | Fac.4 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 927 | Fac.4 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 928 | Fac.4 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 929 | Fac.4 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 930 | Façade 4 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 931 | Façade 4 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 932 | Façade 4 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 933 | Façade 4 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 934 | Façade 4 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 935 | Façade 4 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 936 | Façade 4 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 937 | Fac.4 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 938 | Façade 4 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 939 | Façade 4 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 940 | Façade 4 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|-----|---|------------------|----------|-------------------------|---------|
| 941 | Façade 4 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 942 | Façade 4 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 943 | Façade 4 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 948 | Façade 5 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 949 | Fac.5 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 950 | Façade 5 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 951 | Façade 5 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 952 | Façade 5 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 953 | Façade 5 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 954 | Façade 5 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 955 | Façade 5 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 956 | Façade 5 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 957 | Façade 5 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 958 | Façade 5 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 959 | Façade 5 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 960 | Fac.5 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 961 | Façade 5 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 962 | Fac.5 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 963 | Façade 5 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 964 | Fac.5 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 965 | Fac.5 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_ValueTemp | 2 Bytes |
| 966 | Fac.5 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 967 | Fac.5 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 968 | Fac.5 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 969 | Façade 5 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 970 | Fac.5 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|-----|--|------------------|----------|--------------------------------|---------|
| 971 | Façade 5 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 972 | Fac.5 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 973 | Façade 5 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 974 | Fac.5 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 975 | Façade 5 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 976 | Façade 5 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 977 | Façade 5 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 978 | Façade 5 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 979 | Fac.5 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 980 | Fac.5 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 981 | Fac.5 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 982 | Fac.5 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 983 | Façade 5 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 984 | Fac.5 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 985 | Fac.5 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 986 | Fac.5 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 987 | Fac.5 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 988 | Fac.5 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 989 | Fac.5 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 990 | Fac.5 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 991 | Fac.5 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 992 | Fac.5 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 993 | Fac.5 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|----------------------------|-------------|
| 994 | Fac.5 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 995 | Fac.5 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 996 | Fac.5 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 997 | Fac.5 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 998 | Fac.5 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 999 | Façade 5 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1000 | Façade 5 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1001 | Façade 5 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1002 | Façade 5 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1003 | Façade 5 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1004 | Façade 5 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1005 | Façade 5 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1006 | Fac.5 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1007 | Façade 5 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1008 | Façade 5 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1009 | Façade 5 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1010 | Façade 5 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1011 | Façade 5 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1012 | Façade 5 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1017 | Façade 6 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1018 | Fac.6 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1019 | Façade 6 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1020 | Façade 6 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1021 | Façade 6 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1022 | Façade 6 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|------------------------------|---------|
| 1023 | Façade 6 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1024 | Façade 6 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1025 | Façade 6 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Val- ue_Wsp | 2 Bytes |
| 1026 | Façade 6 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1027 | Façade 6 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1028 | Façade 6 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1029 | Fac.6 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1030 | Façade 6 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1031 | Fac.6 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1032 | Façade 6 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1033 | Fac.6 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1034 | Fac.6 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1035 | Fac.6 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1036 | Fac.6 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1037 | Fac.6 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1038 | Façade 6 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1039 | Fac.6 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1040 | Façade 6 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1041 | Fac.6 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1042 | Façade 6 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1043 | Fac.6 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1044 | Façade 6 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1045 | Façade 6 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1046 | Façade 6 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1047 | Façade 6 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|---------|
| 1048 | Fac.6 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1049 | Fac.6 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1050 | Fac.6 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1051 | Fac.6 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1052 | Façade 6 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1053 | Fac.6 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1054 | Fac.6 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1055 | Fac.6 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1056 | Fac.6 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1057 | Fac.6 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1058 | Fac.6 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1059 | Fac.6 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1060 | Fac.6 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1061 | Fac.6 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1062 | Fac.6 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1063 | Fac.6 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1064 | Fac.6 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1065 | Fac.6 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1066 | Fac.6 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1067 | Fac.6 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1068 | Façade 6 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1069 | Façade 6 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|----------------------------|----------|
| 1070 | Façade 6 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1071 | Façade 6 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1072 | Façade 6 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1073 | Façade 6 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1074 | Façade 6 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1075 | Fac.6 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1076 | Façade 6 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1077 | Façade 6 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1078 | Façade 6 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1079 | Façade 6 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1080 | Façade 6 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1081 | Façade 6 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1086 | Façade 7 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1087 | Fac.7 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1088 | Façade 7 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1089 | Façade 7 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1090 | Façade 7 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1091 | Façade 7 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1092 | Façade 7 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1093 | Façade 7 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1094 | Façade 7 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1095 | Façade 7 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1096 | Façade 7 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1097 | Façade 7 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1098 | Fac.7 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1099 | Façade 7 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|---------|
| 1100 | Fac.6 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1101 | Façade 7 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1102 | Fac.7 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1103 | Fac.7 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1104 | Fac.7 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1105 | Fac.7 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1106 | Fac.7 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1107 | Façade 7 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1108 | Fac.7 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1109 | Façade 7 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1110 | Fac.7 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1111 | Façade 7 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1112 | Fac.7 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1113 | Façade 7 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1114 | Façade 7 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1115 | Façade 7 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1116 | Façade 7 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1117 | Fac.7 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1118 | Fac.7 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1119 | Fac.7 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1120 | Fac.7 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1121 | Façade 7 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1122 | Fac.7 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1123 | Fac.7 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1124 | Fac.7 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|-------------|
| 1125 | Fac.7 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1126 | Fac.7 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1127 | Fac.7 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1128 | Fac.7 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1129 | Fac.7 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1130 | Fac.7 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1131 | Fac.7 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1132 | Fac.7 Sun auto. Brightness measure- ment in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1133 | Fac.7 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1134 | Fac.7 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1135 | Fac.7 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1136 | Fac.7 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1137 | Façade 7 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1138 | Façade 7 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1139 | Façade 7 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 1140 | Façade 7 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1141 | Façade 7 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1142 | Façade 7 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1143 | Façade 7 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1144 | Fac.7 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1145 | Façade 7 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1146 | Façade 7 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1147 | Façade 7 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|-------------------------|---------|
| 1148 | Façade 7 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1149 | Façade 7 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1150 | Façade 7 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1155 | Façade 8 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1156 | Fac.8 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1157 | Façade 8 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1158 | Façade 8 wind extension block (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1159 | Façade 8 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 1160 | Façade 8 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1161 | Façade 8 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1162 | Façade 8 wind alarm (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1163 | Façade 8 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_ValueWsp | 2 Bytes |
| 1164 | Façade 8 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1165 | Façade 8 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1166 | Façade 8 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1167 | Fac.8 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1168 | Façade 8 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1169 | Fac.8 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1170 | Façade 8 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1171 | Fac.8 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1172 | Fac.8 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_ValueTemp | 2 Bytes |
| 1173 | Fac.8 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1174 | Fac.8 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1175 | Fac.8 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1176 | Façade 8 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1177 | Fac.8 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|---------|
| 1178 | Façade 8 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1179 | Fac.8 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1180 | Façade 8 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1181 | Fac.8 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1182 | Façade 8 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1183 | Façade 8 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1184 | Façade 8 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1185 | Façade 8 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1186 | Fac.8 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1187 | Fac.8 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1188 | Fac.8 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1189 | Fac.8 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1190 | Façade 8 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1191 | Fac.8 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1192 | Fac.8 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1193 | Fac.8 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1194 | Fac.8 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1195 | Fac.8 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1196 | Fac.8 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1197 | Fac.8 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1198 | Fac.8 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1199 | Fac.8 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1200 | Fac.8 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|----------------------------|-------------|
| 1201 | Fac.8 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1202 | Fac.8 Sun auto. Brightness threshold value in lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1203 | Fac.8 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1204 | Fac.8 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1205 | Fac.8 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1206 | Façade 8 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1207 | Façade 8 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1208 | Façade 8 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1209 | Façade 8 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1210 | Façade 8 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1211 | Façade 8 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1212 | Façade 8 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1213 | Fac.8 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1214 | Façade 8 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1215 | Façade 8 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1216 | Façade 8 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1217 | Façade 8 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1218 | Façade 8 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1219 | Façade 8 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1224 | Façade 9 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1225 | Fac.9 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1226 | Façade 9 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1227 | Façade 9 wind extension block (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1228 | Façade 9 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1229 | Façade 9 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|------------------------------|---------|
| 1230 | Façade 9 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1231 | Façade 9 wind alarm (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1232 | Façade 9 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Val- ue_Wsp | 2 Bytes |
| 1233 | Façade 9 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1234 | Façade 9 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1235 | Façade 9 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1236 | Fac.9 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1237 | Façade 9 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1238 | Fac.9 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1239 | Façade 9 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1240 | Fac.9 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1241 | Fac.9 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1242 | Fac.9 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1243 | Fac.9 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1244 | Fac.9 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1245 | Façade 9 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1246 | Fac.9 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1247 | Façade 9 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1248 | Fac.9 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1249 | Façade 9 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1250 | Fac.9 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1251 | Façade 9 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1252 | Façade 9 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1253 | Façade 9 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1254 | Façade 9 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|---------|
| 1255 | Fac.9 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1256 | Fac.9 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1257 | Fac.9 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1258 | Fac.9 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1259 | Façade 9 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1260 | Fac.9 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1261 | Fac.9 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1262 | Fac.9 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1263 | Fac.9 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1264 | Fac.9 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1265 | Fac.9 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1266 | Fac.9 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1267 | Fac.9 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1268 | Fac.9 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1269 | Fac.9 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1270 | Fac.9 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1271 | Fac.9 Sun auto. Brightness threshold value in Lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1272 | Fac.9 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1273 | Fac.9 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1274 | Fac.9 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1275 | Façade 9 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1276 | Façade 9 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|--------------|----------|----------------------------|----------|
| 1277 | Façade 9 short delay in seconds | Input/Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1278 | Façade 9 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1279 | Façade 9 retraction delay in min. | Input/Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1280 | Façade 9 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1281 | Façade 9 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1282 | Fac.9 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1283 | Façade 9 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1284 | Façade 9 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1285 | Façade 9 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1286 | Façade 9 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1287 | Façade 9 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1288 | Façade 9 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1293 | Façade 10 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1294 | Fac.10 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1295 | Façade 10 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1296 | Façade 10 wind extension block (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1297 | Façade 10 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1298 | Façade 10 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1299 | Façade 10 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1300 | Façade 10 wind alarm (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1301 | Façade 10 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1302 | Façade 10 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1303 | Façade 10 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1304 | Façade 10 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1305 | Fac.10 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1306 | Façade 10 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|--------------------------------|---------|
| 1307 | Fac.10 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1308 | Façade 10 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1309 | Fac.10 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1310 | Fac.10 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1311 | Fac.10 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1312 | Fac.10 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1313 | Fac.10 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1314 | Façade 10 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1315 | Fac.10 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1316 | Façade 10 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1317 | Fac.10 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1318 | Façade 10 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1319 | Fac.10 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1320 | Façade 10 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1321 | Façade 10 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1322 | Façade 10 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1323 | Façade 10 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1324 | Fac.10 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1325 | Fac.10 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1326 | Fac.10 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1327 | Fac.10 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1328 | Façade 10 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1329 | Fac.10 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1330 | Fac.10 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1331 | Fac.10 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|--------------------------------|-------------|
| 1332 | Fac.10 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1333 | Fac.10 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1334 | Fac.10 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1335 | Fac.10 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1336 | Fac.10 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1337 | Fac.10 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1338 | Fac.10 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1339 | Fac.10 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1340 | Fac.10 Sun auto. Brightness threshold value in Lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1341 | Fac.10 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1342 | Fac.10 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1343 | Fac.10 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1344 | Façade 10 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1345 | Façade 10 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1346 | Façade 10 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeri- odSec | 2 Bytes |
| 1347 | Façade 10 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1348 | Façade 10 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1349 | Façade 10 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1350 | Façade 10 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1351 | Fac.10 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1352 | Façade 10 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1353 | Façade 10 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1354 | Façade 10 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|-------------------------|---------|
| 1355 | Façade 10 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1356 | Façade 10 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1357 | Façade 10 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1362 | Façade 11 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1363 | Fac.11 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1364 | Façade 11 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1365 | Façade 11 wind extension block (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1366 | Façade 11 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1367 | Façade 11 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1368 | Façade 11 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1369 | Façade 11 wind alarm (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1370 | Façade 11 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1371 | Façade 11 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1372 | Façade 11 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1373 | Façade 11 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1374 | Fac.11 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1375 | Façade 11 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1376 | Fac.11 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1377 | Façade 11 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1378 | Fac.11 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1379 | Fac.11 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 1380 | Fac.11 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1381 | Fac.11 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1382 | Fac.11 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1383 | Façade 11 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1384 | Fac.11 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|--------------------------------|---------|
| 1385 | Façade 11 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1386 | Fac.11 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1387 | Façade 11 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1388 | Fac.11 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1389 | Façade 11 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_Pow- erDensity | 2 Bytes |
| 1390 | Façade 11 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1391 | Façade 11 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1392 | Façade 11 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1393 | Fac.11 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1394 | Fac.11 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1395 | Fac.11 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1396 | Fac.11 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1397 | Façade 11 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1398 | Fac.11 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1399 | Fac.11 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1400 | Fac.11 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1401 | Fac.11 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1402 | Fac.11 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1403 | Fac.11 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1404 | Fac.11 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1405 | Fac.11 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1406 | Fac.11 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1407 | Fac.11 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|----------------------------|-------------|
| 1408 | Fac.11 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1409 | Fac.11 Sun auto. Brightness threshold value in Lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1410 | Fac.11 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1411 | Fac.11 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1412 | Fac.11 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1413 | Façade 11 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1414 | Façade 11 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1415 | Façade 11 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1416 | Façade 11 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1417 | Façade 11 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1418 | Façade 11 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1419 | Façade 11 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1420 | Fac.11 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1421 | Façade 11 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1422 | Façade 11 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1423 | Façade 11 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1424 | Façade 11 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1425 | Façade 11 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1426 | Façade 11 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1431 | Façade 12 simulation (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1432 | Fac.12 block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1433 | Façade 12 safety (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1434 | Façade 12 wind extension block (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1435 | Façade 12 wind extension block threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1436 | Façade 12 wind extension block threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|-------------------------|---------|
| 1437 | Façade 12 wind extension block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1438 | Façade 12 wind alarm (1: On 0: Off) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1439 | Façade 12 wind alarm threshold value in m/s | Input | RWC T | [9.5] DPT_Value_Wsp | 2 Bytes |
| 1440 | Façade 12 wind alarm threshold value (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1441 | Façade 12 wind alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1442 | Façade 12 frost alarm status (1: On 0: Off) | Output | RWC T | [1.1] DPT_Switch | 1 Bit |
| 1443 | Fac.12 release/block rain automatic | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1444 | Façade 12 rain alarm status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1445 | Fac.12 release/block timed opening | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1446 | Façade 12 timed opening status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1447 | Fac.12 outside temp. Release/block block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1448 | Fac.12 outside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Value_Temp | 2 Bytes |
| 1449 | Fac.12 outside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1450 | Fac.12 outside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1451 | Fac.12 release/block timed closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1452 | Façade 12 timed closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1453 | Fac.12 release/block night closure | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1454 | Façade 12 night closure status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1455 | Fac.12 release/block heat protection | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1456 | Façade 12 heating protection status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1457 | Fac.12 release/block pyranometer | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1458 | Façade 12 pyranometer in W/m ² | Input/ Output | RWC T | [9.22] DPT_PowerDensity | 2 Bytes |
| 1459 | Façade 12 pyranometer in W/m ² (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1460 | Façade 12 pyranometer status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1461 | Façade 12 internal temperature in °C | Input | -SKÜ | [9.1] DPT_Value_Temp | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|------------------|----------|--------------------------------|---------|
| 1462 | Fac.12 release/block inside temp. block | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1463 | Fac.12 inside temp. Block in °C | Input/ Output | RWC T | [9.1] DPT_Val- ue_Temp | 2 Bytes |
| 1464 | Fac.12 inside temp. Block in °C (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1465 | Fac.12 inside temp. Block status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1466 | Façade 12 internal temperature block release/block via bit object | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1467 | Fac.12 release/block sun auto. | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1468 | Fac.12 Sun auto. Azimuth from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1469 | Fac.12 Sun auto. Azimuth from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1470 | Fac.12 Sun auto. Azimuth up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1471 | Fac.12 Sun auto. Azimuth up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1472 | Fac.12 Sun auto. Elevation from (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1473 | Fac.12 Sun auto. Elevation from (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1474 | Fac.12 Sun auto. Elevation up to (in °) | Input | RWC T | [14.7] DPT_Val- ue_AngleDeg | 4 Bytes |
| 1475 | Fac.12 Sun auto. Elevation up to (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1476 | Fac.12 Sun auto. AziEle status (1: On 0: Off) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1477 | Fac.12 Sun auto. Brightness measurement in lux | Input | -SKÜ | [9.4] DPT_Value_Lux | 2 Bytes |
| 1478 | Fac.12 Sun auto. Brightness threshold value in Lux | Input | RWC T | [9.4] DPT_Value_Lux | 2 Bytes |
| 1479 | Fac.12 Sun auto. Brightness threshold (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1480 | Fac.12 Sun auto. Bright. Short status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1481 | Fac.12 Sun auto. Bright. Long status (1: On) | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1482 | Façade 12 extension delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeri- odMin | 2 Bytes |
| 1483 | Façade 12 extension delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|------------------|----------|----------------------------|-------------|
| 1484 | Façade 12 short delay in seconds | Input/ Output | RWC T | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1485 | Façade 12 short delay in seconds (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1486 | Façade 12 retraction delay in min. | Input/ Output | RWC T | [7.6] DPT_TimePeriodMin | 2 Bytes |
| 1487 | Façade 12 retraction delay in min. (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1488 | Façade 12 movement position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1489 | Fac.12 blind position | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1490 | Façade 12 channel status output (1: On 0: Off) | Input | RWC- | [1.1] DPT_Switch | 1 Bit |
| 1491 | Façade 12 channel state text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1492 | Façade 12 channel status bit text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1493 | Façade 12 channel status bit state | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1494 | Façade 12 channel delay | Output | R-CT | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1495 | Façade 12 channel status bit selection (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1530 | Calculator 1: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1531 | Calculator 1: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1532 | Calculator 1: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1533 | Calculator 1: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1534 | Calculator 1: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1535 | Calculator 1: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1536 | Calculator 1: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1537 | Calculator 1: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1538 | Calculator 2: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1539 | Calculator 2: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1540 | Calculator 2: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1541 | Calculator 2: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|---------------------------------|----------|----------|----------------------------|----------|
| 1542 | Calculator 2: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1543 | Calculator 2: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1544 | Calculator 2: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1545 | Calculator 2: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1546 | Calculator 3: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1547 | Calculator 3: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1548 | Calculator 3: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1549 | Calculator 3: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1550 | Calculator 3: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1551 | Calculator 3: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1552 | Calculator 3: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1553 | Calculator 3: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1554 | Calculator 4: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1555 | Calculator 4: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1556 | Calculator 4: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1557 | Calculator 4: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1558 | Calculator 4: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1559 | Calculator 4: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1560 | Calculator 4: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1561 | Calculator 4: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1562 | Calculator 5: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1563 | Calculator 5: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1564 | Calculator 5: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1565 | Calculator 5: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1566 | Calculator 5: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|---------------------------------|----------|----------|----------------------------|-------------|
| 1567 | Calculator 5: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1568 | Calculator 5: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1569 | Calculator 5: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1570 | Calculator 6: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1571 | Calculator 6: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1572 | Calculator 6: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1573 | Calculator 6: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1574 | Calculator 6: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1575 | Calculator 6: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1576 | Calculator 6: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1577 | Calculator 6: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1578 | Calculator 7: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1579 | Calculator 7: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1580 | Calculator 7: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1581 | Calculator 7: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1582 | Calculator 7: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1583 | Calculator 7: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1584 | Calculator 7: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1585 | Calculator 7: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1586 | Calculator 8: Input I1 | Input | RWC T | Depending on setting | 4 Bytes |
| 1587 | Calculator 8: Input I2 | Input | RWC T | Depending on setting | 4 Bytes |
| 1588 | Calculator 8: Input I3 | Input | RWC T | Depending on setting | 4 Bytes |
| 1589 | Calculator 8: Output O1 | Output | R-CT | Depending on setting | 4 Bytes |
| 1590 | Calculator 8: Output O2 | Output | R-CT | Depending on setting | 4 Bytes |
| 1591 | Calculator 8: Condition text | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|---|----------|----------|--------------------------------|---------|
| 1592 | Calculator 8: Monitoring status | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1593 | Calculator 8: Block (1: Block) | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1600 | Weekly timer period 1: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1601 | Weekly timer period 1: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1602 | Weekly timer period 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1603 | Weekly timer period 1: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1604 | Weekly timer period 2: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1605 | Weekly timer period 2: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1606 | Weekly timer period 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1607 | Weekly timer period 2: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1608 | Weekly timer period 3: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1609 | Weekly timer period 3: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1610 | Weekly timer period 3: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1611 | Weekly timer period 3: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1612 | Weekly timer period 4: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1613 | Weekly timer period 4: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1614 | Weekly timer period 4: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1615 | Weekly timer period 4: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1616 | Weekly timer period 5: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1617 | Weekly timer period 5: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1618 | Weekly timer period 5: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1619 | Weekly timer period 5: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1620 | Weekly timer period 6: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|--------------------------------|---------|
| 1621 | Weekly timer period 6: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1622 | Weekly timer period 6: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1623 | Weekly timer period 6: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1624 | Weekly timer period 7: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1625 | Weekly timer period 7: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1626 | Weekly timer period 7: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1627 | Weekly timer period 7: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1628 | Weekly timer period 8: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1629 | Weekly timer period 8: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1630 | Weekly timer period 8: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1631 | Weekly timer period 8: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1632 | Weekly timer period 9: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1633 | Weekly timer period 9: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1634 | Weekly timer period 9: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1635 | Weekly timer period 9: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1636 | Weekly timer period 10: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1637 | Weekly timer period 10: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1638 | Weekly timer period 10: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1639 | Weekly timer period 10: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1640 | Weekly timer period 11: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1641 | Weekly timer period 11: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1642 | Weekly timer period 11: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|---------------------------|---------|
| 1643 | Weekly timer period 11: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1644 | Weekly timer period 12: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1645 | Weekly timer period 12: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1646 | Weekly timer period 12: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1647 | Weekly timer period 12: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1648 | Weekly timer period 13: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1649 | Weekly timer period 13: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1650 | Weekly timer period 13: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1651 | Weekly timer period 13: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1652 | Weekly timer period 14: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1653 | Weekly timer period 14: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1654 | Weekly timer period 14: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1655 | Weekly timer period 14: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1656 | Weekly timer period 15: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1657 | Weekly timer period 15: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1658 | Weekly timer period 15: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1659 | Weekly timer period 15: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1660 | Weekly timer period 16: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1661 | Weekly timer period 16: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1662 | Weekly timer period 16: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1663 | Weekly timer period 16: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1664 | Weekly timer period 17: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|--------------------------------|---------|
| 1665 | Weekly timer period 17: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1666 | Weekly timer period 17: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1667 | Weekly timer period 17: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1668 | Weekly timer period 18: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1669 | Weekly timer period 18: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1670 | Weekly timer period 18: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1671 | Weekly timer period 18: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1672 | Weekly timer period 19: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1673 | Weekly timer period 19: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1674 | Weekly timer period 19: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1675 | Weekly timer period 19: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1676 | Weekly timer period 20: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1677 | Weekly timer period 20: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1678 | Weekly timer period 20: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1679 | Weekly timer period 20: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1680 | Weekly timer period 21: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1681 | Weekly timer period 21: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1682 | Weekly timer period 21: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1683 | Weekly timer period 21: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1684 | Weekly timer period 22: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1685 | Weekly timer period 22: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1686 | Weekly timer period 22: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|----------------------------|---------|
| 1687 | Weekly timer period 22: 8-bit output | Output | R-CT | [5..10] DPT_Value_1_Ucount | 1 Byte |
| 1688 | Weekly timer period 23: Switch-on time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1689 | Weekly timer period 23: Off time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1690 | Weekly timer period 23: Switching output | Output | R-CT | [1..1] DPT_Switch | 1 Bit |
| 1691 | Weekly timer period 23: 8-bit output | Output | R-CT | [5..10] DPT_Value_1_Ucount | 1 Byte |
| 1692 | Weekly timer period 24: Switch-on time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1693 | Weekly timer period 24: Off time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1694 | Weekly timer period 24: Switching output | Output | R-CT | [1..1] DPT_Switch | 1 Bit |
| 1695 | Weekly timer period 24: 8-bit output | Output | R-CT | [5..10] DPT_Value_1_Ucount | 1 Byte |
| 1720 | Calendar timer period 1: Start date | Input | RWC T | [11..1] DPT_Date | 3 Bytes |
| 1721 | Calendar timer period 1: End date | Input | RWC T | [11..1] DPT_Date | 3 Bytes |
| 1722 | Calendar timer period 1 sequence 1: Switch-on time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1723 | Calendar timer period 1 sequence 1: Off time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1724 | Calendar timer period 1 sequence 1: Switching output | Output | R-CT | [1..1] DPT_Switch | 1 Bit |
| 1725 | Calendar timer period 1 sequence 1: 8-bit output | Output | R-CT | [5..10] DPT_Value_1_Ucount | 1 Byte |
| 1726 | Calendar timer period 2 sequence 1: Switch-on time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1727 | Calendar timer period 2 sequence 1: Off time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |
| 1728 | Calendar timer period 2 sequence 1: Switching output | Output | R-CT | [1..1] DPT_Switch | 1 Bit |
| 1729 | Calendar timer period 2 sequence 1: 8-bit output | Output | R-CT | [5..10] DPT_Value_1_Ucount | 1 Byte |
| 1730 | Calendar timer period 2: Start date | Input | RWC T | [11..1] DPT_Date | 3 Bytes |
| 1731 | Calendar timer period 2: End date | Input | RWC T | [11..1] DPT_Date | 3 Bytes |
| 1732 | Calendar timer period 2 sequence 1: Switch-on time | Input | RWC T | [10..1] DPT_TimeOf-Day | 3 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|--------------------------------|---------|
| 1733 | Calendar timer period 2 sequence 1: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1734 | Calendar timer period 2 sequence 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1735 | Calendar timer period 2 sequence 1: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1736 | Calendar timer period 2 sequence 2: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1737 | Calendar timer period 2 sequence 2: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1738 | Calendar timer period 2 sequence 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1739 | Calendar timer period 2 sequence 2: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1740 | Calendar timer period 3: Start date | Input | RWC T | [11.1] DPT_Date | 3 Bytes |
| 1741 | Calendar timer period 3: End date | Input | RWC T | [11.1] DPT_Date | 3 Bytes |
| 1742 | Calendar timer period 3 sequence 1: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1743 | Calendar timer period 3 sequence 1: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1744 | Calendar timer period 3 sequence 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1745 | Calendar timer period 3 sequence 1: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1746 | Calendar timer period 3 sequence 2: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1747 | Calendar timer period 3 sequence 2: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1748 | Calendar timer period 3 sequence 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1749 | Calendar timer period 3 sequence 2: 8-bit output | Output | R-CT | [5.10] DPT_Val- ue_1_Ucount | 1 Byte |
| 1750 | Calendar timer period 4: Start date | Input | RWC T | [11.1] DPT_Date | 3 Bytes |
| 1751 | Calendar timer period 4: End date | Input | RWC T | [11.1] DPT_Date | 3 Bytes |
| 1752 | Calendar timer period 4 sequence 1: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1753 | Calendar timer period 4 sequence 1: Off time | Input | RWC T | [10.1] DPT_TimeOf- Day | 3 Bytes |
| 1754 | Calendar timer period 4 sequence 1: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------|----------|---------------------------|---------|
| 1755 | Calendar timer period 4 sequence 1: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1756 | Calendar timer period 4 sequence 2: Switch-on time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1757 | Calendar timer period 4 sequence 2: Off time | Input | RWC T | [10.1] DPT_TimeOf-Day | 3 Bytes |
| 1758 | Calendar timer period 4 sequence 2: Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1759 | Calendar timer period 4 sequence 2: 8-bit output | Output | R-CT | [5.10] DPT_Value_1_Ucount | 1 Byte |
| 1780 | Logic input 1 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1781 | Logic input 2 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1782 | Logic input 3 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1783 | Logic input 4 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1784 | Logic input 5 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1785 | Logic input 6 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1786 | Logic input 7 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1787 | Logic input 8 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1788 | Logic input 9 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1789 | Logic input 10 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1790 | Logic input 11 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1791 | Logic input 12 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1792 | Logic input 13 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1793 | Logic input 14 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1794 | Logic input 15 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1795 | Logic input 16 | Input | -WC- | [1.2] DPT_Bool | 1 Bit |
| 1800 | AND logic 1: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1801 | AND logic 1: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1802 | AND logic 1: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1803 | AND logic 1: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1804 | AND logic 2: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1805 | AND logic 2: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1806 | AND logic 2: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1807 | AND logic 2: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1808 | AND logic 3: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1809 | AND logic 3: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1810 | AND logic 3: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1811 | AND logic 3: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1812 | AND logic 4: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1813 | AND logic 4: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1814 | AND logic 4: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |

| No. | Text | Function | Flags | DPT type | Size |
|------|-------------------------------------|----------|-------|-------------------|--------|
| 1815 | AND logic 4: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1816 | AND logic 5: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1817 | AND logic 5: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1818 | AND logic 5: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1819 | AND logic 5: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1820 | AND logic 6: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1821 | AND logic 6: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1822 | AND logic 6: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1823 | AND logic 6: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1824 | AND logic 7: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1825 | AND logic 7: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1826 | AND logic 7: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1827 | AND logic 7: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1828 | AND logic 8: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1829 | AND logic 8: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1830 | AND logic 8: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1831 | AND logic 8: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1832 | OR logic 1: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1833 | OR logic 1: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1834 | OR logic 1: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1835 | OR logic 1: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1836 | OR logic 2: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1837 | OR logic 2: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1838 | OR logic 2: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1839 | OR logic 2: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1840 | OR logic 3: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1841 | OR logic 3: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1842 | OR logic 3: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1843 | OR logic 3: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1844 | OR logic 4: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1845 | OR logic 4: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1846 | OR logic 4: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1847 | OR logic 4: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1848 | OR logic 5: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1849 | OR logic 5: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1850 | OR logic 5: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1851 | OR logic 5: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1852 | OR logic 6: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1853 | OR logic 6: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1854 | OR logic 6: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------------|-------|---------------------------|----------|
| 1855 | OR logic 6: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1856 | OR logic 7: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1857 | OR logic 7: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1858 | OR logic 7: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1859 | OR logic 7: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1860 | OR logic 8: 1-bit switching output | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1861 | OR logic 8: 8-bit output A | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1862 | OR logic 8: 8-bit output B | Output | R-CT | [5.1] DPT_Scaling | 1 Byte |
| 1863 | OR logic 8: Block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1889 | Wind direction: Measurement [°] | Output | R-CT | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1890 | Wind direction: Measurement [compass direction] | Output | R-CT | [16.0] DPT_String_ASCII | 14 Bytes |
| 1891 | Wind direction measurement [°] | Output | R-CT | [5.3] DPT_Angle | 1 Byte |
| 1892 | Wind direction north | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1893 | Wind direction North-East | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1894 | Wind direction east | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1895 | Wind direction South-East | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1896 | Wind direction south | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1897 | Wind direction South-West | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1898 | Wind direction west | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1899 | Wind direction North-West | Output | R-CT | [1.2] DPT_Bool | 1 Bit |
| 1904 | Wind direction: Range 1 Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1905 | Wind direction range value 1: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1906 | Wind direction range value 1: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1907 | Wind direction range value 1 from: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1908 | Wind direction range value 1 up to: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1909 | Wind direction range value 1 from: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1910 | Wind direction range value 1 up to: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1911 | Wind direction range value 1: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1914 | Wind direction: Range 2 Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1915 | Wind direction range value 2: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |

| No. | Text | Function | Flags | DPT type | Size |
|------|--|----------------|-------|---------------------------|---------|
| 1916 | Wind direction range value 2: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1917 | Wind direction range value 2 from: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1918 | Wind direction range value 2 up to: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1919 | Wind direction range value 2 from: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1920 | Wind direction range value 2 up to: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1921 | Wind direction range value 2: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1924 | Wind direction: Range 3 Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1925 | Wind direction range value 3: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1926 | Wind direction range value 3: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1927 | Wind direction range value 3 from: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1928 | Wind direction range value 3 up to: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1929 | Wind direction range value 3 from: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1930 | Wind direction range value 3 up to: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1931 | Wind direction range value 3: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |
| 1934 | Wind direction: Range 4 Switching output | Output | R-CT | [1.1] DPT_Switch | 1 Bit |
| 1935 | Wind direction range value 4: Delay from 0 to 1 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1936 | Wind direction range value 4: Delay from 1 to 0 | Input | -WC- | [7.5] DPT_TimePeriodSec | 2 Bytes |
| 1937 | Wind direction range value 4 from: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1938 | Wind direction range value 4 up to: (1:+ 0:-) | Input | -WC- | [1.7] DPT_Step | 1 Bit |
| 1939 | Wind direction range value 4 from: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1940 | Wind direction range value 4 up to: Absolute value | Input / Output | RWC T | [14.7] DPT_Value_AngleDeg | 4 Bytes |
| 1941 | Wind direction range value 4: Switching output block | Input | -WC- | [1.1] DPT_Switch | 1 Bit |

5. Parameter setting

5.0.1. Behaviour on power failure/power restoration

Behaviour on bus or auxiliary power failure

The device sends nothing.

Behaviour on bus or auxiliary voltage restoration and following programming or reset

The device sends all measurement values as well as switching and status outputs according to their send pattern set in the parameters with the delays established in the "General settings" parameter block. The "Software version" communications object is sent once after 5 seconds.

5.0.2. Storage of threshold values

For threshold values that are specified via a communication object, a starting value must be entered for the first commissioning. It is valid until the first communication of a new threshold value.

After this, a threshold value once set per parameter or via a communication object is retained until a new threshold value is sent via a communication object. The last threshold value set by communication object is saved in the device, so that it is retained during a power outage and is available once again when power is restored.

5.0.3. Malfunction objects

Malfunction objects are sent after every reset and, additionally, after changes (i.e. at the beginning and end of a malfunction).

5.0.4. General settings

Set basic characteristics of data transfer. A different transmission delay prevents an overload of the bus shortly after the reset.

| Transmission delay after reset/restoration of bus for: | |
|--|---|
| Measured values | <u>5</u> ... 300 seconds |
| Threshold values and switching outputs | <u>5</u> ... 300 seconds |
| Façade objects | <u>5</u> ... 300 seconds |
| Computer objects | <u>5</u> ... 300 seconds |
| time switch objects | <u>5</u> ... 300 seconds |
| Logic objects | <u>5</u> ... 300 seconds |
| Maximum telegram quota | 1 • 2 • 5 • <u>10</u> • 20 • 50 <u>Telegrams per sec.</u> |

5.0.5. GPS

Set whether the time and date are to be sent as separate objects or as one common object. Specify whether the time and date are to be set by the GPS signal or objects.

If time and date are **set by the GPS-Signal**, the data is available as soon as a valid GPS signal is received.

If time and date are **set by two objects**, then only a maximum of 10 seconds may elapse between receiving the date and receiving the time Furthermore, a change of date may not occur between receiving both objects. The objects must be received by the device on the same day.

The device has an integrated real-time clock. Therefore, time keeps on running internally and can be sent to the bus, even when no GPS coverage is available or no time object has been received for some time. The internal clock can show a time drift of up to ± 6 seconds per day.

| | |
|--------------------------------------|---|
| Object type date and time | <ul style="list-style-type: none"> • <u>two separate objects</u> • a common object |
| Date and time will be set by | <ul style="list-style-type: none"> • GPS signal and not sent • GPS signal and sent periodically • <u>GPS signal and sent on request</u> • GPS signal and sent on request + periodically • object(s) and not sent |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>1 min</u> |

Set what happens in the event of a GPS malfunction. Please note, that after return of auxiliary voltage, it can take up to 10 minutes before the GPS signal is received.

| | |
|--|---|
| If there is no reception, GPS fault is ... recognised after the last reception | 20 min • <u>30 min</u> • 1 h • 1.5 h • 2 h |
| GPS fault object sends (1: malfunction 0: no malfunction) | <ul style="list-style-type: none"> • <u>never</u> • on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |

5.1. Location

The location data is required in order to be able to calculate the **position of the sun** with the help of the date and time.

The **location** is received via GPS or entered manually (selection of the nearest town or by entering coordinates). Also when using the GPS signal coordinates can be entered manually for the initial commissioning. This data is used as long as no GPS re-

ception exists. For this you select the option "Input (only valid until the first GPS reception)".

| | |
|---|--|
| Location is determined by | <ul style="list-style-type: none"> • input • <u>input (only valid until the first GPS reception)</u> • GPS reception |
| Location input using (if input selected) | <ul style="list-style-type: none"> • <u>Town</u> • Coordinates |
| Country (if input by town is selected) | <ul style="list-style-type: none"> • Belgium • Denmark • <u>Germany</u> • France • Great Britain • Italy • Liechtenstein • Luxembourg • Netherlands • Austria • Switzerland • USA |
| Town (if input by town is selected) | <ul style="list-style-type: none"> 6 towns in Belgium 1 town in Denmark 48 towns in Germany; <u>Stuttgart</u> 23 towns in France 4 towns in Great Britain 10 towns in Italy 1 town in Liechtenstein 1 town in Luxembourg 2 towns in the Netherlands 4 towns in Austria 4 towns in Switzerland 2 towns in the USA |
| E. longitude [degrees, -180...+180] (if input by coordinates is selected) | <u>9</u> [negative values mean "western longitude"] |
| E. longitude [minutes, -59...+59] (if input by coordinates is selected) | <u>10</u> [negative values mean "western longitude"] |
| Northern latitude [Degrees, -90...+90] (if input by coordinates is selected) | <u>48</u> [negative values mean "southern latitude"] |
| Northern latitude [minutes, -59...+59] (if input by coordinates is selected) | <u>46</u> [negative values mean "southern latitude"] |

The location-**height** above sea level is used to calculate the normal air pressure (see also chapter *Information on air pressure*, page 96).

The height is received per GPS or entered manually. When using the GPS signal a height can be entered manually for the initial commissioning. This data is used as long as no GPS reception exists. For this you select the option "Input (only valid until the first GPS reception)".

| | |
|----------------------------------|---|
| Height is determined by | <ul style="list-style-type: none"> • Input • <u>Input (only valid until the first GPS reception)</u> • GPS reception |
| Height above sea level in metres | -1000 ... 10000; <u>200</u> |

In order to be able to output the **local time**, the time zone (difference to world time (Coordinated Universal Time)) and the summer time rules must be defined. Specify the hours and minutes after winter time (standard time).

| | |
|--|---|
| Time zone (relative to GMT): | |
| Prefix | <ul style="list-style-type: none"> • <u>positive (+)</u> • <u>negative (-)</u> |
| Hours | 0 ... 13; <u>1</u> |
| Minutes | 0 ... 59; <u>0</u> |
| Summertime rule | <ul style="list-style-type: none"> • <u>Europe</u> • <u>USA</u> • <u>user-defined</u> • <u>none</u> |
| All the following times are to be entered as winter time = standard time | |
| Start of Summer Time: | |
| on | <ul style="list-style-type: none"> • <u>Monday ... Sunday</u> • <u>Date</u> |
| From (day) <i>(for Europe or USA summer time rules)</i> (Day) <i>(For user defined summer time rules)</i> | 1 ... 31; <u>25</u> |
| (Month) | 1 ... 12; <u>3</u> |
| (Hour) | 0 ... 23; <u>2</u> |
| (minutes) | <u>0</u> ... 59 |
| End of Summer Time: | |
| on | <ul style="list-style-type: none"> • <u>Monday ... Sunday</u> • <u>Date</u> |
| From (day) <i>(for Europe or USA summer time rules)</i> (Day) <i>(For user defined summer time rules)</i> | 1 ... 31; <u>25</u> |
| (Month) | 1 ... 12; <u>10</u> |
| (hour) | 0 ... 23; <u>2</u> |
| (minutes) | <u>0</u> ... 59 |
| Time shift: | |
| hours | -12 ... 12; <u>1</u> |
| minutes | <u>0</u> ... 59 |

The standard coordinates can be transmitted from the device to the bus and thus be used in other applications, no matter whether they have been received via GPS or specified manually.

| | |
|------------------|---|
| Send coordinates | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| on change of | 0.5° • 1° • <u>2°</u> • 5° • 10° |
| Send cycle | 5 s ... 2 h; <u>5 min</u> |

5.2. Rain

Activate the rain sensor in order to use objects and switch outputs.

| | |
|-----------------|-----------------|
| Use rain sensor | <u>No</u> • Yes |
|-----------------|-----------------|

Set, in which cases delay times received are to be kept per object. The parameter is only taken into consideration if the setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|--|
| Maintain the delays received via communication objects | <ul style="list-style-type: none"> • <u>never</u> • after power restoration • after power restoration and programming |
|--|--|

Select whether the special rain output is to be used with fixed switching delay. This switching output has no delay on rain recognition and 5 minutes delay after it is dry again.

| | |
|--|-----------------|
| Use rain output with fixed switching delay | <u>No</u> • Yes |
|--|-----------------|

Set the delay times. If the delays are defined using objects, then the times set here are only valid up to the first call.

| | |
|---|-----------------------------|
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay on rain | <u>none</u> • 1 s ... • 2 h |
| Delay on no rain (after drying of the sensor) | <u>5 min</u> • 1 h... • 2 h |

Define the send pattern for the rain switch output and specify the object value for the event of rain.

| | |
|--------------------------------------|--|
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to rain • on change to no rain • <u>on change and periodically</u> • on change to rain and periodically • on change to no rain and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |
| Object value(s) with rain | 0 • <u>1</u> |

5.3. Temperature measurement value

First of all set whether the temperature sensor malfunction object is to be used and correct, if necessary, the output of the measurement value by specifying an offset (e.g. in order to compensate malfunction sources).

| | |
|------------------------|---------------------|
| Use malfunction object | <u>No</u> • Yes |
| Offset in 0.1°C | -50... 50; <u>0</u> |

Then set the mixed value calculation if desired.

| | |
|---|--|
| Use external reading | <u>No</u> • Yes |
| Ext. Reading proportion of the total reading (if external reading is to be used) | 5% • 10% • 15% • ... • <u>50%</u> • ... • 95% • 100% |
| All following settings refer to the total measured value | |

Specify the send pattern for the total measured value.

| | |
|--------------------------------------|---|
| Send pattern | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| on change of (if sent on change) | 0.1°C • 0.2°C • <u>0.5°C</u> • 1.0°C • 2.0°C • 5.0°C |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |

Select whether the minimum and maximum value should be used.

| | |
|-------------------------------|-----------------|
| Use minimum and maximum value | <u>No</u> • Yes |
|-------------------------------|-----------------|

Define the transmission behavior for the felt temperature.

| | |
|--|---|
| Transmission behaviour for felt temperature (wind chill and heat index) (Wind chill considers wind strength at < 10 °C) (Heat index considers humidity at > 20 °C) | <ul style="list-style-type: none"> • <u>not</u> • periodically • on change • on change and periodically |
|--|---|

5.4. Temperature threshold values

Activate the temperature threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

| | |
|--------------------|-----------------|
| Threshold value 1 | <u>No</u> • Yes |
| Threshold value... | <u>No</u> • Yes |
| Threshold value 4 | <u>No</u> • Yes |

5.4.1. Temperature threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|---|---|
| Maintain the threshold values and delays received via communication objects | <ul style="list-style-type: none"> • never • after power supply restoration • after power supply restoration and programming |
|---|---|

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **threshold value per parameter** is specified, then the value is set.

| | |
|--------------------------|--------------------------|
| Threshold value in 0.1°C | -300 ... 800; <u>200</u> |
|--------------------------|--------------------------|

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

| | |
|---|--|
| Start threshold value in 0.1°C valid until first call | -300 ... 800; <u>200</u> |
| Object value limit (min) in 0.1°C | <u>-300</u> ... 800 |
| Object value limit (max) in 0.1°C | -300 ... <u>800</u> |
| Type of threshold change | <u>Absolute value</u> • Increase/decrease |
| Step size (upon increase/decrease change) | <u>0.1°C</u> • 0.2°C • 0.3°C • 0.4°C • 0.5°C • 1°C • 2°C • 3°C • 4°C • 5°C |

With both of the methods for specifying the threshold values the hysteresis is set.

| | |
|--|------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis in % of the threshold value (for setting in %) | 0 ... 50; <u>20</u> |
| Hysteresis in 0.1°C (for absolute setting) | 0 ... 1100; <u>50</u> |

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

| | |
|--|--|
| When the following conditions apply, the output is (LV = Threshold value) | <ul style="list-style-type: none"> • <u>GW above = 1 GW - Hyst. below = 0</u> • <u>GW above = 0 GW - Hyst. below = 1</u> • <u>GW below = 1 GW + Hyst. above = 0</u> • <u>GW below = 0 GW + Hyst. above = 1</u> |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h |
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---|--|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block At value 0: release</u> • <u>At value 0: block At value 1: release</u> |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|----------------------------------|---|
| Switching output sends on change | do not send message • Status object/s send/s |
|----------------------------------|---|

| | |
|--|---|
| Switching output sends on change to 1 | do not send message • If switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • If switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | If switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | If switching output = 0 → send 0 |

5.5. Frost alarm

If necessary, activate the parameter frost alarm. The parameter is independent of the frost alarm used for the façade controller. The internal façade frost alarm is set separately (see *Façade setting* > *Frostalarm*, page 90)

| | |
|-----------------|-----------------|
| Use frost alarm | <u>No</u> • Yes |
|-----------------|-----------------|

Set which conditions are valid for the frost alarm. The frost alarm is active in cold outdoor temperatures in combination with precipitation.

| | |
|--|-----------------------|
| Start frost alarm when | |
| an external temperature of (in 0.1 °C) is not reached. | -50 ... 40; <u>20</u> |
| during or until (in hours) after precipitation. | 1 ... 10; <u>5</u> |
| End frost alarm when | |
| an external temperature of (in 0.1 °C) for more than (in hours) is exceeded. | 30 ... 100; <u>50</u> |
| | 1 ... 10; <u>5</u> |

Define the send pattern and the object value.

| | |
|--------------------------------------|--|
| Send pattern | <ul style="list-style-type: none"> • <u>on change</u> • on change to frost • on change to no frost • on change and periodically • on change to frost and periodically • on change to no frost and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>1 min</u> |
| Object value with frost | 0 • <u>1</u> |

5.6. Humidity measurement

Select, whether a **malfunction object** is to be sent if the sensor is faulty.

| | |
|------------------------|-----------------|
| Use malfunction object | <u>No</u> • Yes |
|------------------------|-----------------|

Use **Offsets** to adjust the readings to be sent.

| | |
|-----------------|------------|
| Offset in 0,1°C | -100...100 |
|-----------------|------------|

The unit can calculate a **mixed value** from its own reading and an external value. Set the mixed value calculation if desired. If an external portion is used, all of the following settings (threshold values, etc.) are related to the overall reading.

| | |
|--|---|
| Use external measured value | <u>No</u> • Yes |
| Ext. Reading proportion of the total reading | 5% • 10% • ... • <u>50%</u> • ... • 100% |
| All of the following settings are referred to the total value. | |
| Send internal and total reading | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| At and above change of (if sent on change) | 0.1% RH • 0.2% RH • 0.5% RH • <u>1.0% RH</u> • ... • 25% RH |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • ... • 2 h |

The **minimum and maximum readings** can be saved and sent to the bus. Use the „Reset humidity min/max value“ object to reset the values to the current readings. The values are not retained after a reset.

| | |
|-------------------------------|-----------------|
| Use minimum and maximum value | <u>No</u> • Yes |
|-------------------------------|-----------------|

5.7. Humidity threshold values

Activate the required air humidity threshold values. The menus for setting the threshold values are displayed.

| | |
|-----------------------------|-----------------|
| Use threshold value 1/2/3/4 | Yes • <u>No</u> |
|-----------------------------|-----------------|

5.7.1. Threshold value 1, 2, 3, 4

Threshold value

Set, in which cases **threshold values and delay times** received via objects are to be retained. The parameter is only taken into consideration if the setting via object is activated below. Please note that the setting "After power supply restoration and pro-

gramming" should not be used for the initial start-up, as the factory settings are always used until the first communication (setting via objects is ignored).

| | |
|---|--|
| Threshold values and delays shall be maintained | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
|---|--|

Set the threshold value directly in the application program using parameters, or define them via the bus using a communication object.

Threshold value setting using parameter:

Set the threshold values and hysteresis directly.

| | |
|---|--|
| Threshold value setting using | Parameter • Communication objects |
| Threshold value in 0.1% RH (valid until 1st communication) | 0 ... 1000; <u>650</u> |

Threshold value setting using a communication object:

Define, how the threshold value is to be received from the bus. Basically, a new value can be received, or simply a command to increase or decrease.

During initial commissioning, a threshold value must be defined, which will be valid until the first communication with a new threshold value. For units which have already been taken into service, the last communicated threshold value can be used. Basically, a humidity range is specified in which the threshold value can be changed (object value limit).

From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

A set threshold value will be retained until a new value or a change is transferred. The current value is saved, so that it is retained in the event of a power supply failure and will be available once the power supply is restored.

| | |
|--|---|
| Threshold value setting using | Parameter • Communication objects |
| Starting threshold value in 0.1% RH valid until first communication | 0 ... 1000; <u>650</u> |
| Object value limit (min.) in 0.1%RH | <u>0</u> ...1000 |
| Object value limit (max.) in 0.1%RH | 0... <u>1000</u> |
| Type of threshold value change | <u>Absolute value</u> • Increase/Decrease |
| Increment (upon increase/decrease change) | 0,10% • 0,20% • 0,50% • 1,00% • <u>2,00%</u> • 5,00% • 10,00% • 20,00% |

Set the **hysteresis** independent of the type of threshold value specification.

| | |
|---|------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis of the threshold value in % (relative to the threshold value) | 0 ... 50; <u>20</u> |
| Hysteresis in 0.1% RH (relative to the threshold value) | 0 ... 1000; <u>100</u> |

Switching output

Set the behaviour of the switching output when a threshold value is exceeded/undercut. The output switching delay can be set using objects or directly as a parameter.

| | |
|--|--|
| When the following conditions apply, the output is (TV = Threshold value) | <ul style="list-style-type: none"> • <u>TV above = 1</u> TV - hyst. below = 0 • <u>TV above = 0</u> TV - hyst. below = 1 • TV below = 1 TV + hyst. above = 0 • TV below = 0 TV + hyst. above = 1 |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Switching delay from 0 to 1 (If delay can be set via objects: valid until 1st communication) | <u>None</u> • 1 s • 2 s • 5 s • 10 s • ... • 2 h |
| Switching delay from 1 to 0 (If delay can be set via objects: valid until 1st communication) | <u>None</u> • 1 s • 2 s • 5 s • 10 s • ... • 2 h |
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (is only sent if periodically is selected) | <u>5 s</u> • 10 s • 30 s ... • 2 h |

Block

The switching output can be blocked using an object.

| | |
|----------------------------|-----------------|
| Use switching output block | <u>No</u> • Yes |
|----------------------------|-----------------|

If the block is activated, define specifications here for the behaviour of the output when blocked.

| | |
|--|---|
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block</u> At value 0: release • At value 0: block At value 1: release |
| Blocking object value before first communication | <u>0</u> • 1 |
| Behaviour of the switching output | |
| On block | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| On release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|----------------------------------|---|
| Switching output sends on change | <ul style="list-style-type: none"> • Do not send message • Send switching output status |
|----------------------------------|---|

| | |
|--|---|
| Switching output sends on change to 1 | <ul style="list-style-type: none"> • Do not send message • if switching output = 1 → send 1 |
| Switching output sends on change to 0 | <ul style="list-style-type: none"> • Do not send message • if switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | if switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | if switching output = 0 → send 0 |

5.8. Dewpoint measurement

The **Weather Station Suntracer KNX pro** calculates the dewpoint temperature and can output the value to the bus.

| | |
|---|---|
| Sending pattern | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| At and above change of (if sent on change) | 0,1°C • 0,2°C • <u>0,5°C</u> • 1,0°C • 2,0°C • 5,0°C |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • 30 s • 1 min • ... • 2 h |

Activate the monitoring of the coolant temperature if required. The menus for setting the monitoring are displayed.

| | |
|---|-----------------|
| Use monitoring of the coolant temperature | <u>No</u> • Yes |
|---|-----------------|

5.8.1. Cooling medium temp. monitoring

A threshold value can be set for the temperature of the coolant, which is based on the current dewpoint temperature (offset/deviation). The switching output of the coolant temperature monitoring system can provide a warning prior to any build-up of condensation in the system, and/or activate appropriate countermeasures.

Threshold value

Threshold value = dewpoint temperature + offset

Set, in which cases **offset** received via object is to be retained. Please note that the setting "After power supply restoration and programming" should not be used for the in-

initial start-up, as the factory settings are always used until the first communication (setting via objects is ignored).

| | |
|--|--|
| The offset communicated last shall be maintained | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
|--|--|

During initial commissioning, an **offset** must be defined which is valid until the first communication of a new offset. For units which have already been taken into service, the last communicated offset can be used.

A set offset will be retained until a new value or a change is transferred. The current value is saved, so that it is retained in the event of a power supply failure and will be available once the power supply is restored.

| | |
|--|---|
| Start offset in °C valid until first communication | 0...200; <u>30</u> |
| Increment for offset change via communication object | <u>0,1°C</u> • 0,2°C • 0,3°C • 0,4°C • 0,5°C • 1°C • 2°C • 3°C • 4°C • 5°C |
| Hysteresis of the threshold value in % (for setting in %) | 0 ... 50; <u>20</u> |
| Hysteresis of the threshold value in 0.1°C (for absolute setting) | 0 ... 1000; <u>50</u> |
| Threshold value sends | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| At and above change of (if sent on change) | <u>0.1°C</u> • 0.2°C • 0.5°C • 1.0°C • 2.0°C • 5.0°C |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • 30 s • 1 min • ... • 2 h |

Switching output

The output switching delay can be set using objects or directly as a parameter.

| | |
|--|---|
| When the following conditions apply, the output is (TV = Threshold value) | <ul style="list-style-type: none"> • TV above = 1 TV - hyst. below = 0 • TV above = 0 TV - hyst. below = 1 • <u>TV below = 1 TV + hyst. above = 0</u> • TV below = 0 TV + hyst. above = 1 |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Switching delay from 0 to 1 for setting via objects: valid until 1st communication | <u>None</u> • 1 s • 2 s • 5 s • 10 s • ... • 2 h |
| Switching delay from 1 to 0 for setting via objects: valid until 1st communication | <u>None</u> • 1 s • 2 s • 5 s • 10 s • ... • 2 h |

| | |
|---|--|
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Send cycle <i>(is only sent if periodically is selected)</i> | <u>5 s</u> • 10 s • 30 s... • 2 h |

Blocking

The switching output can be blocked using an object. Define specifications here for the behaviour of the output when blocked.

| | |
|--|--|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block</u> <u>At value 0: release</u> • <u>At value 0: block</u> <u>At value 1: release</u> |
| Blocking object value before first communication | <u>0</u> • 1 |
| Behaviour of the switching output | |
| On block | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| On release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|--|---|
| Switching output sends on change | <ul style="list-style-type: none"> • Do not send message • Send switching output status |
| Switching output sends on change to 1 | <ul style="list-style-type: none"> • Do not send message • if switching output = 1 → send 1 |
| Switching output sends on change to 0 | <ul style="list-style-type: none"> • Do not send message • if switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | if switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | if switching output = 0 → send 0 |

5.9. Absolute humidity

The absolute air humidity value is detected by the **Suntracer KNX pro** and can be output to the bus.

| | |
|-----------------------|-----------------|
| Use absolute humidity | <u>No</u> • Yes |
|-----------------------|-----------------|

| | |
|---|---|
| Sending pattern | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| At and above change of (if sent on change) | 0,1 g • 0,2 g • <u>0,5 g</u> • 1,0 g • 2,0 g • 5,0 g |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • 30 s... • 2 h |

5.10. Comfort field

The **Weather Station Suntracer KNX pro** can send a message to the bus if the limits of the comfort field are exceeded. In this way, it is for example possible to monitor compliance with DIN 1946 (standard values) or even to define your own comfort field.

| | |
|-------------------|-----------------|
| Use comfort field | <u>No</u> • Yes |
|-------------------|-----------------|

Specify the sending pattern, a text for comfortable and uncomfortable, and how the object value should be.

| | |
|-----------------------------------|---|
| Sending pattern | <ul style="list-style-type: none"> • <u>never</u> • on change • on change to comfortable • on change to uncomfortable • on change and periodically • on change to comfortable and periodically • on change to uncomfortable and periodically |
| Text for comfortable | Enter a text here! |
| Text for uncomfortable | Enter a text here! |
| Object value is at | <ul style="list-style-type: none"> • <u>comfortable = 1</u> <u>uncomfortable = 0</u> • <u>comfortable = 0</u> <u>uncomfortable = 1</u> |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • 30 s... • 2 h |

Define the comfort field by specifying the minimum and maximum values for temperature and humidity. The specified standard values comply with DIN 1946

| | |
|--|------------------------|
| Maximum temperature in °C (Standard 26°C) | 25 ... 40; <u>26</u> |
| Minimum temperature in °C (Standard 20°C) | 10 ... 21; <u>20</u> |
| Maximum relative humidity in % (Standard 65%) | 52 ... 90; <u>65</u> |
| Minimum relative humidity in % (Standard 30%) | 10 ... 43; <u>30</u> |
| Maximum absolute humidity in 0.1 g/kg (Standard 115 g/kg) | 50 ... 200; <u>115</u> |

Temperature hysteresis: 1°C
 Relative humidity hysteresis: 2% RH
 Absolute humidity hysteresis: 2 g/kg

5.11. Brightness measurement value

Set the send pattern for the measured brightness. The highest currently measured value of the five internal sensors is used as the brightness value (since this maximum value is the best basis for shading control, the 5 individual sensor values are not output).

| | |
|---|---|
| Send pattern | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| at and above change in % (if sent on change) | 1 ... 100; <u>20</u> |
| Send cycle (if sent periodically) | <u>5 s</u> ... 2 h |

5.12. Brightness threshold values

Activate the brightness threshold values required (maximum eight) The menus for the further setting of the threshold values are then displayed.

The maximum brightness level is decisive for the limit value outputs (see "Brightness measurement value" on page 82.).

| | |
|--------------------|-----------------|
| Threshold value 1 | <u>No</u> • Yes |
| Threshold value... | <u>No</u> • Yes |
| Threshold value 8 | <u>No</u> • Yes |

If the shade automation is to be used, a threshold value must be active!

5.12.1. Brightness threshold value 1-8

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--------------|--|
| Maintain the | |
|--------------|--|

| | |
|--|---|
| threshold values and delays received via communication objects | <ul style="list-style-type: none"> • never • after power supply restoration • after power supply restoration and programming |
| | |

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **threshold value per parameter** is specified, then the value is set.

| | |
|-------------------------|-------------------------------|
| Threshold value in kLux | 1000 ... 150000; <u>60000</u> |
|-------------------------|-------------------------------|

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

| | |
|---|---|
| Start threshold value in Lux valid until first call | 1000 ... 150000; <u>60000</u> |
| Object value limit (min.) in Lux | <u>1000</u> ... 150000 |
| Object value limit (max.) in Lux | 1000 ... <u>150000</u> |
| Type of threshold change | <u>Absolute value</u> • Increase/decrease |
| Increment in Lux (upon increase/decrease change) | 1000 • <u>2000</u> • 5000 • 10000 • 20000 |

With both of the methods for specifying the threshold values the hysteresis is set.

| | |
|--|----------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis in % of the threshold value (for setting in %) | 0 ... 100; <u>50</u> |
| Hysteresis in Lux (for absolute setting) | 0 ... 150000; <u>30000</u> |

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

| | |
|--|--|
| When the following conditions apply, the output is (LV = Threshold value) | <ul style="list-style-type: none"> • <u>GW above = 1</u> GW - Hyst. below = <u>0</u> • GW above = 0 GW - Hyst. below = 1 • GW below = 1 GW + Hyst. above = 0 • GW below = 0 GW + Hyst. above = 1 |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h |

| | |
|---------------------------------|--|
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---|--|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • At value 1: block At value 0: release • At value 0: block At value 1: release |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|--|---|
| Switching output sends on change | do not send message • Status object/s send/s |
| Switching output sends on change to 1 | do not send message • If switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • If switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | If switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | If switching output = 0 → send 0 |

5.13. Twilight brightness threshold values

Activate the twilight threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

| | |
|-------------------|-----------------|
| Threshold value 1 | <u>No</u> • Yes |
|-------------------|-----------------|

| | |
|--------------------|-----------------|
| Threshold value... | <u>No</u> • Yes |
| Threshold value 4 | <u>No</u> • Yes |

5.13.1. Twilight threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|---|---|
| Maintain the threshold values and delays received via communication objects | <ul style="list-style-type: none"> • never • after power supply restoration • after power supply restoration and programming |
|---|---|

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **threshold value per parameter** is specified, then the value is set.

| | |
|-------------------------|-----------------------|
| Threshold value in kLux | 1 ... 1000; <u>10</u> |
|-------------------------|-----------------------|

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

| | |
|---|---|
| Start threshold value in Lux valid until first call | 1 ... 1000; <u>10</u> |
| Object value limit (min.) in Lux | <u>1</u> ... 1000 |
| Object value limit (max.) in Lux | 1 ... <u>1000</u> |
| Type of threshold change | <u>Absolute value</u> • Increase/decrease |
| Increment in Lux (upon increase/decrease change) | 1 • <u>2</u> • 5 • 10 • 20 • 50 |

With both of the methods for specifying the threshold values the hysteresis is set.

| | |
|--|------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis in % of the threshold value (for setting in %) | 0 ... 100; <u>50</u> |
| Hysteresis in Lux (for absolute setting) | 0 ... 1000; <u>5</u> |

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

| | |
|---|--|
| When the following conditions apply, the output is (LV = Threshold value) | <ul style="list-style-type: none"> • <u>GW above = 1</u> <u>GW - Hyst. below = 0</u> • <u>GW above = 0</u> <u>GW - Hyst. below = 1</u> • <u>GW below = 1</u> <u>GW + Hyst. above = 0</u> • <u>GW below = 0</u> <u>GW + Hyst. above = 1</u> |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h |
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|--|--|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block</u> <u>At value 0: release</u> • <u>At value 0: block</u> <u>At value 1: release</u> |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|---|--|
| Switching output sends on change | do not send message • status object/s send/s |
| Switching output sends on change to 1 | do not send message • if switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • if switching output = 0 → send 0 |
| Switching output sends on change and periodically | send switching output status |

| | |
|--|----------------------------------|
| Switching output sends on change to 1 and periodically | if switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | if switching output = 0 → send 0 |

5.14. Night

If necessary, activate the night recognition.

| | |
|-----------------------|-----------------|
| Use night recognition | <u>No</u> • Yes |
|-----------------------|-----------------|

Set, in which cases delay times received are to be kept per object. The parameter is only taken into consideration if the setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|--|
| Maintain the delays received via communication objects | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
|--|--|

Specify below which brightness the device should recognise "night" and with which hysteresis this is to be outputted.

| | |
|-------------------------------|-----------------------|
| Night is recognised below Lux | 1 ... 1000; <u>10</u> |
| Hysteresis in Lux | 0 ... 500; <u>5</u> |

Set the delay for the switching and in which cases the switch output sends and which value is output at night.

| | |
|--|--|
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Switching delay on night | <u>none</u> • 1 s ... 2 h |
| Switching delay on day | <u>none</u> • 1 s ... 2 h |
| Switching output sends | <ul style="list-style-type: none"> • <u>on change</u> • on change to night • on change to day • on change and periodically • on change to night and periodically • on change to day and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |
| Object value at night | 0 • <u>1</u> |

5.15. Sun position

Select whether the device should calculate the sun position itself or if the values are received via the bus. The type of object and send pattern are also set.

| | |
|---|---|
| Sun position | <u>is calculated</u> • is received |
| Object type | <u>4 Byte floating point</u> • 2 Byte floating point |
| Send pattern (if the sun position is calculated by the device) | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| on change of (if sent on change) | 0.1 degrees • 0.2 degrees • 0.5 degrees • <u>1.0 degree</u> • 2.0 degrees • 5.0 degrees |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>1 min</u> |

5.16. Wind measurement

Enter the unit for wind speed.

If changing the unit, the parameters for the wind threshold values and facade/wind alarm must be set again!

| | |
|---|-------------------|
| Wind speed units: (valid for all parameters and measured values) | <u>m/s</u> • km/h |
|---|-------------------|

If necessary, activate the wind malfunction object. Specify whether the measurement should also be output in Beaufort.

| | |
|--|-----------------|
| Use malfunction object | <u>No</u> • Yes |
| Measured value additionally output in the Beaufort scale | <u>No</u> • Yes |

Define the send pattern and, if necessary, activate the maximum value (this value is not retained after a reset).

| | |
|--------------------------------------|---|
| Send pattern | <ul style="list-style-type: none"> • <u>never</u> • periodically • on change • on change and periodically |
| on change of (if sent on change) | 2% • <u>5%</u> • 10% • 25% • 50% |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |
| Use maximum value | <u>No</u> • Yes |

Beaufort scale

| Beaufort | Meaning |
|----------|-----------------|
| 0 | Calm |
| 1 | Light air |
| 2 | Light breeze |
| 3 | Gentle breeze |
| 4 | Moderate breeze |
| 5 | Fresh breeze |
| 6 | Strong breeze |
| 7 | High wind |
| 8 | Gale |
| 9 | Severe gale |
| 10 | Storm |
| 11 | Violent storm |
| 12 | Hurricane |

5.17. Wind threshold values

Activate the wind threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

| | |
|--------------------|-----------------|
| Threshold value 1 | <u>No</u> • Yes |
| Threshold value... | <u>No</u> • Yes |
| Threshold value 4 | <u>No</u> • Yes |

5.17.1. Wind threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|---|---|
| Maintain the threshold values and delays received via communication objects | <ul style="list-style-type: none"> • never • after power supply restoration • after power supply restoration and programming |
| . | |

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **threshold value per parameter** is specified, then the value is set.

| | |
|----------------------------|----------------------|
| Threshold value in 0.1 m/s | 1 ... 350; <u>40</u> |
|----------------------------|----------------------|

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

| | |
|---|---|
| Start threshold value in 0.1 m/s valid until first call | 1 ... 350; <u>40</u> |
| Object value limit (min.) in 0.1 m/s increments | <u>1</u> ... 350 |
| Object value limit (max.) in 0.1 m/s increments | 1 ... <u>350</u> |
| Type of threshold change | <u>Absolute value</u> • Increase/decrease |
| Step size (upon increase/decrease change) | 0.1 m/s • 0.2 m/s • <u>0.5 m/s</u> • 1.0 m/s • 2.0 m/s • 5.0 m/s |

With both of the methods for specifying the threshold values the hysteresis is set.

| | |
|---|------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis in % (relative to threshold value) (for setting in %) | 0 ... 50; <u>20</u> |
| Hysteresis in 0.1 m/s (for absolute setting) | 0 ... 350; <u>20</u> |

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

| | |
|--|--|
| When the following conditions apply, the output is (LV = Threshold value) | <ul style="list-style-type: none"> • <u>GW above = 1</u> <u>GW - Hyst. below = 0</u> • <u>GW above = 0</u> <u>GW - Hyst. below = 1</u> • <u>GW below = 1</u> <u>GW + Hyst. above = 0</u> • <u>GW below = 0</u> <u>GW + Hyst. above = 1</u> |
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h; <u>5 min</u> |

| | |
|---------------------------------|--|
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---|---|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block At value 0: release</u> • At value 0: block At value 1: release |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|--|---|
| Switching output sends on change | do not send message • Status object/s send/s |
| Switching output sends on change to 1 | do not send message • If switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • If switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | If switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | If switching output = 0 → send 0 |

5.18. Wind direction measured value

Measured value object

Specify whether the measured value is to be sent.

| | |
|--|--|
| Send measured value | <ul style="list-style-type: none"> • <u>no</u> • periodically • on change • on change and periodically |
| On change of <i>(is only sent if „on change“ is selected)</i> | 1° • 2° • <u>5°</u> • 10° • 20° • 30° |
| Send cycle <i>(is sent periodically)</i> | <u>5 s</u> • ... • 2 h |
| Send measured value as | 1 byte object • <u>4 byte object</u> |

Text object

Specify whether the wind direction should be sent as text.

| | |
|---|--|
| Send wind direction as text | <ul style="list-style-type: none"> • <u>no</u> • periodically • on change • on change and periodically |
| Wind direction hysteresis <i>(is only sent if „on change“ is selected)</i> | 0° • 1° • 3° • <u>5°</u> • 8° • 12° • 16° • 20° |
| Send cycle <i>(is sent periodically)</i> | <u>5 s</u> • ... • 2 h |
| at lower wind speed ($v < 0.5$ m/s): | Calm [Free text] |
| North (0°): | North [Free text] |
| North-East (45°): | North-East [Free text] |
| East (90°): | East [Free text] |
| South-East (135°): | South-East [Free text] |
| South (180°): | South [Free text] |
| South-West (225°): | outh-West [Free text] |
| West (270°): | West [Free text] |
| North-West (315°): | North-West [Free text] |

1 bit object

Specify whether the wind direction is to be sent as a 1 bit object.

| | |
|---|--|
| Send wind direction as a 1 bit object | <ul style="list-style-type: none"> • <u>no</u> • periodically • on change • on change and periodically |
| Wind direction hysteresis <i>(is only sent if „on change“ is selected)</i> | 0° • 1° • 3° • <u>5°</u> • 8° • 12° • 16° • 20° |
| Send cycle <i>(is sent periodically)</i> | <u>5 s</u> • ... • 2 h |
| North (0°) if active, send: | 0 • <u>1</u> |
| North-East (45°) if active, send: | 0 • <u>1</u> |
| East (90°) if active, send: | 0 • <u>1</u> |
| South-East (135°) if active, send: | 0 • <u>1</u> |
| South (180°) if active, send: | 0 • <u>1</u> |
| South-West (225°) if active, send: | 0 • <u>1</u> |
| West (270°) if active, send: | 0 • <u>1</u> |
| North-West (315°) if active, send: | 0 • <u>1</u> |

5.19. Wind direction ranges

Activate the wind direction ranges required (maximum four) The menus for the further setting of the threshold values are then displayed.

| | |
|--------------|-----------------|
| Use range 1 | <u>No</u> • Yes |
| Use range... | <u>No</u> • Yes |
| Use range 4 | <u>No</u> • Yes |

5.19.1. Range 1-4

Wind direction angle range

Set, in which cases ranges and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and program-

ming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|--|
| Maintain the | |
| Ranges and delays received via communication objects | <ul style="list-style-type: none"> • <u>not</u> • after power supply restoration • after power supply restoration and programming |
| . | |

Select whether the range is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **angle range per parameter** is specified, then the value is set.

| | |
|-------|------------------|
| from: | <u>0</u> ... 359 |
| to: | <u>0</u> ... 359 |

When the **angle range per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

| | |
|--|--|
| Angle range until first communication: | |
| from: | <u>0</u> ... 359 |
| to: | <u>0</u> ... 359 |
| Type of range change | <u>Absolute value</u> • Increase/decrease |
| Step size (upon increase/decrease change) | <u>1°</u> • 2° • 3° • <u>5°</u> • 8° • 12° • 16° • 20° |

With both of the methods for specifying the range values the hysteresis is set.

| | |
|------------|---|
| Hysteresis | 1° • 2° • 3° • <u>5°</u> • 8° • 12° • 16° • 20° |
|------------|---|

Switching output

Set the delay for the switching and in which cases the switch output transmits.

| | |
|---|--|
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h; <u>5 min</u> |
| Send switching outputs | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---|---|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | • At value 1: block At value 0: release • <u>At value 0: block At value 1: release</u> |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | • <u>Do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|--|---|
| Switching output sends on change | do not send message • Status object/s send/s |
| Switching output sends on change to 1 | do not send message • If switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • If switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | If switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | If switching output = 0 → send 0 |

5.20. Air pressure measurement

If necessary, activate the air pressure malfunction object. Specify whether the measured value is, in addition, to be outputted as barometric pressure (see below *Information on air pressure*).

| | |
|---|-----------------|
| Use malfunction object | <u>No</u> • Yes |
| Measured value additionally output as barometric pressure | <u>No</u> • Yes |

Define the send pattern and, if necessary, activate the minimum and maximum value (these values are not retained after a reset).

| | |
|--------------------------|---|
| Send pattern measurement | • <u>never</u> • periodically • on change • on change and periodically |
|--------------------------|---|

| | |
|--------------------------------------|---|
| on change of (if sent on change) | 10 Pa • 20 Pa • 50 Pa • 100 Pa • 200 Pa • 500 Pa |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>1 min</u> |
| Use minimum and maximum value | <u>No</u> • Yes |

Information on air pressure

The unit for air pressure is Pascal (Pa).

1 Pa = 0,01 hPa = 0,01 mbar

The air pressure is specified as "normal air pressure" or as "barometric pressure". The normal air pressure is the pressure compensated for height and temperature. The barometric air pressure is the pressure measured directly by the sensor (without compensation).

| Air pressure (in Pa) | Meaning | Weather tendency |
|-------------------------|-----------|------------------|
| up to 98,000 Pa | very low | stormy |
| 98,000 ... 100,000 Pa | low | rainy |
| 100,000 ... 102,000 Pa | normal | changeable |
| 102,000 ... 104,000 Pa | high | sunny |
| 104,000 Pa: | very high | very dry |

5.21. Air pressure threshold values

Activate the air pressure threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

| | |
|--------------------|-----------------|
| Threshold value 1 | <u>No</u> • Yes |
| Threshold value... | <u>No</u> • Yes |
| Threshold value 4 | <u>No</u> • Yes |

5.21.1. Air pressure threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and pro-

gramming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Select the type of measured value for the calculation of the threshold value (see *Information on air pressure*)

| | |
|--|--|
| Maintain the threshold values and delays received via communication object | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
| Type of measurement for threshold value calculation | <ul style="list-style-type: none"> • <u>Normal air pressure</u> • Barometric pressure |

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|--|
| Threshold value setpoint using | <u>Parameter</u> • Communications object |
|--------------------------------|--|

When the **threshold value per parameter** is specified, then the value is set.

| | |
|--------------------------|------------------------------|
| Threshold value in 10 Pa | 3000 ... 11000; <u>10200</u> |
|--------------------------|------------------------------|

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

| | |
|---|---|
| Start threshold value in 10 Pa valid until first call | 3000 ... 11000; <u>10200</u> |
| Object value limit (min.) in 10 Pa | <u>3000</u> ... 11000 |
| Object value limit (max.) in 10 Pa | 3000 ... <u>11000</u> |
| Type of threshold change | <u>Absolute value</u> • Increase/decrease |
| Step size (upon increase/decrease change) | 10 Pa • 20 Pa • <u>50 Pa</u> • 100 Pa • 200 Pa • 500 Pa |

With both of the methods for specifying the threshold values the hysteresis is set.

| | |
|---|-------------------------|
| Hysteresis setting | in % • <u>absolute</u> |
| Hysteresis in % (relative to threshold value) (for setting in %) | 0 ... 50; <u>20</u> |
| Hysteresis in 10 Pa (for absolute setting) | 0 ... 11000; <u>100</u> |

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

| | |
|--|---|
| When the following conditions apply, the output is (LV = Threshold value) | <ul style="list-style-type: none"> • <u>GW above = 1 GW - Hyst. below = 0</u> • GW above = 0 GW - Hyst. below = 1 • GW below = 1 GW + Hyst. above = 0 • GW below = 0 GW + Hyst. above = 1 |
|--|---|

| | |
|--|--|
| Delays can be set via objects (in seconds) | <u>No</u> • Yes |
| Delay from 0 to 1 | <u>none</u> • 1 s ... 2 h |
| Delay from 1 to 0 | <u>none</u> • 1 s ... 2 h |
| Switching output sends | <ul style="list-style-type: none"> • on change • on change to 1 • on change to 0 • <u>on change and periodically</u> • on change to 1 and periodically • on change to 0 and periodically |
| Cycle (if sent periodically) | <u>5 s</u> ... 2 h |

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---|---|
| Use switching output block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block At value 0: release</u> • At value 0: block At value 1: release |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>Do not send message</u> • send 0 • send 1 |
| Action upon release (with 2 seconds release delay) | [Dependent on the "Switching output sends" setting] |

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

| | |
|--|---|
| Switching output sends on change | do not send message • Status object/s send/s |
| Switching output sends on change to 1 | do not send message • If switching output = 1 → send 1 |
| Switching output sends on change to 0 | do not send message • If switching output = 0 → send 0 |
| Switching output sends on change and periodically | Send switching output status |
| Switching output sends on change to 1 and periodically | If switching output = 1 → send 1 |
| Switching output sends on change to 0 and periodically | If switching output = 0 → send 0 |

5.22. Summer Compensation

With the summer compensation the target value for the room temperature can automatically be adapted by cooling at higher outdoor temperatures. The objective is to

prevent a too great a difference between indoor and outdoor temperature in order to keep the energy consumption low.

Activate the summer compensation.

| | |
|-------------------------|-----------------|
| Use summer compensation | <u>No</u> • Yes |
|-------------------------|-----------------|

Using the points 1 and 2, define the outdoor temperature range in which the target value for the indoor temperature is to be adapted linearly. Then, specify which indoor temperature target values are to be valid below point1 and above point 2.

Standard values according to DIN EN 60529

Point 1: External temperature = 20°, Target value = 20°C.

Point 2: External temperature = 32°, Target value = 26°C.

| | |
|--|------------------------|
| Characteristic curve description: | |
| External temperature point 1 (in 0.1°C increments) | 0 ... 500 ; <u>200</u> |
| Outdoor temperature point 2 (in 0.1°C increments) | 0 ... 500 ; <u>320</u> |
| below point 1 the target value is (in 0.1°C) | 0 ... 500 ; <u>200</u> |
| above point 2 the target value is (in 0.1°C) | 0 ... 500 ; <u>260</u> |

Set the send pattern for the summer compensation.

| | |
|--------------------------------------|--|
| Send pattern | <ul style="list-style-type: none"> • periodically • <u>on change</u> • on change and periodically |
| on change of (if sent on change) | 0.1°C • <u>0.2°C</u> • 0.5°C • 1°C • 2°C • 5°C |
| Send cycle (if sent periodically) | 5 s ... 2 h ; <u>1 min</u> |

If necessary, activate the block for the summer compensation and set what a 1 or 0 at the block input means and what happens in the event of a block.

| | |
|--|---|
| Use block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block</u> At value 0: release • At value 0: block At value 1: release |
| Blocking object value before first call | <u>0</u> • 1 |
| Action when locking | <ul style="list-style-type: none"> • <u>do not send</u> • Send value |
| Value (in increments of 0.1°C) (if a value is sent during blocking) | 0 ... 500 ; <u>200</u> |

5.23. Optimal usage of façade controller functions

5.23.1. Classifying the façades for the control unit

The control options for shades are façade-related functions.

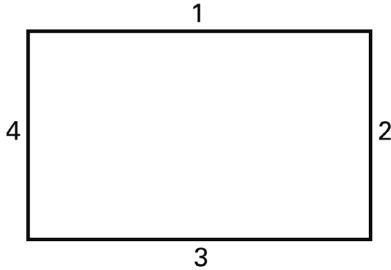


Fig. 2

Most buildings have 4 façades. It is generally recommended that the solar protection of each façade be controlled separately.

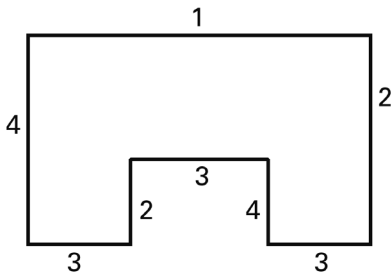


Fig. 3

Even in buildings with a U-shaped layout, only 4 façades have to be controlled differently, as several have the same alignment.

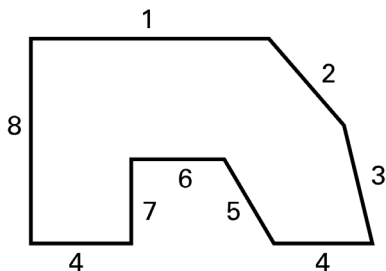


Fig. 4

In buildings with an asymmetrical layout the façades with a non-right-angled orientation (2, 3, 5) and façades that are set back (6) must be controlled separately.

Curved/round fronts should be divided into several façades (segments) to be controlled individually.

If a building has more than 12 façades, the deployment of another weather station is recommended; particularly as this also makes it possible to measure the wind speed in another location.

When there are several buildings, wind measurement should take place separately for each building (e.g. with additional KNX W sl wind sensors), as, depending on the positions of the buildings in relation to one another, different wind speeds may occur.

5.23.2. Orientation and inclination of the façade

Alignment and slant of the façade are needed for the shadow edge tracking and the slat auto-guide.

Top view

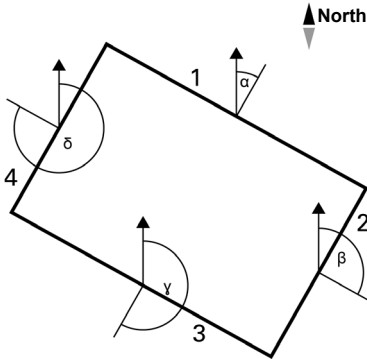


Fig. 5

The façade orientation corresponds to the angle between the North-South axis and the façade vertical. The angle α is measured here in a clockwise direction.

The façade orientations result as follows:

- Façade 1: α
- Façade 2: $\beta = \alpha + 90^\circ$
- Façade 3: $\gamma = \alpha + 180^\circ$
- Façade 4: $\delta = \alpha + 270^\circ$

Example: If the building is skewed by $\alpha = 30^\circ$, then the direction for façade 1 = 30° , façade 2 = 120° , façade 3 = 210° and façade 4 = 300° .

Side view

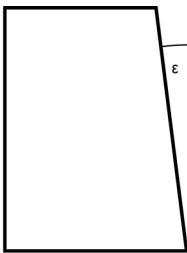


Fig. 6

If a façade surface is not oriented vertically, this must be taken into account. A forward inclination of the façade is counted as a positive angle; a backwards inclination (as in the picture) as a negative angle. This also allows a sunshade of a window built into a sloping roof surface to be controlled according to the current position of the sun.

If a façade is not a flat surface, but rather arched or bent, it must be subdivided into several segments to be controlled separately.

Remember, when setting a façade inclination greater than 0° also to adjust the height of the sun at which shading is to take place.

5.23.3. Shadow edge tracking and slat tracking

Shadow edge tracking

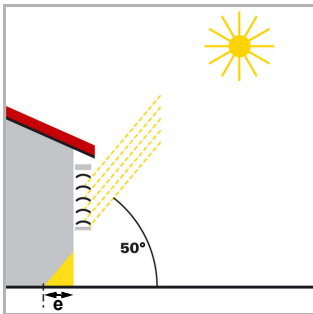
With shadow edge tracking the sunshade is not moved down fully; instead, it is moved only so far that the sun can still shine a configurable distance (e.g. 50 cm) into the room. This allows the room user to look outside through the lower part of the window, and plants which may be on the window ledge to be exposed to the sun.

Shadow edge tracking can only be used with a sunshade which is moved **from the top downwards** (e.g. shutters, textile shades or blinds with horizontal slats). This function *cannot* be used with sunshades which are pulled in front of a window from one or both sides.

Slat tracking

During slat tracking the horizontal slats of shutters are not fully closed but rather automatically adjusted according to the position of the sun so that it cannot shine directly into the room. Diffuse daylight can still enter the room through the slats and contribute to dazzle-free room lighting. Using slat tracking with an external shutter, the entry of warm air into the room through sunshine can be reduced and, at the same time, energy costs for lighting the room can be reduced.

Using shadow edge tracking and slat tracking

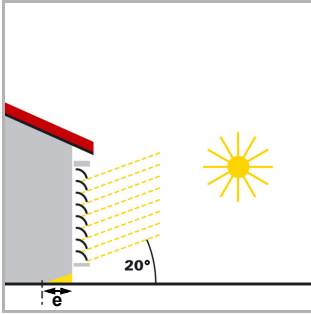


Sunshade when the position of the sun is high

Fig. 7

The sunshade is only partially closed and automatically moved down only enough so that the sun cannot shine further into the room than specified by the maximum permitted penetration depth (e).

The slats can be set horizontally without the sun shining directly into the room.

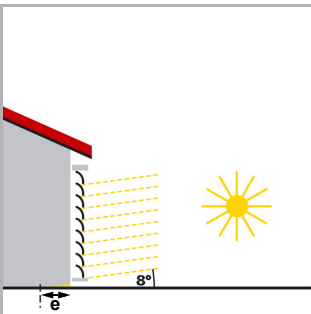


Sunshade when the sun is in a central position

Fig. 8

The sunshade is automatically moved down only far enough so that the sun does not exceed the maximum permitted penetration depth (e) in the room.

The slats are automatically closed further, so that the sun cannot shine directly into the room. Despite that, diffuse daylight can still reach the room and so contribute to the room lighting.



Sunshade when the position of the sun is low

Fig. 9

The sunshade is automatically moved down almost fully, so that the sun does not shine too far into the room.

The slats are automatically closed further, so that the sun does not shine in directly.

5.23.4. Slat types and determination of width and spacing

With slat tracking, a distinction is made between a sunshade or glare protection with horizontal slats and one with vertical slats.

A sunshade with horizontal slats (e.g. external shutter) is typically moved downwards from the top. In the case of an internal glare protector there are versions consisting of thin strips of material (vertical slats), which can be rotated by up to 180° and are pulled out from one or both sides of the window.

Both types of slat can be adjusted by the sensor **Suntracer KNX pro** so that no direct sunlight falls into the room, but as much diffuse daylight as possible does.

In order for slat tracking to set the slats correctly, their width and spacing from one another must be known.

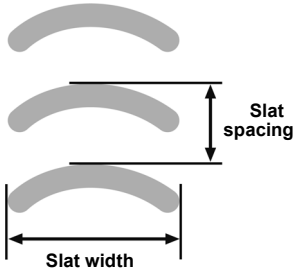


Fig. 10

Horizontal slats

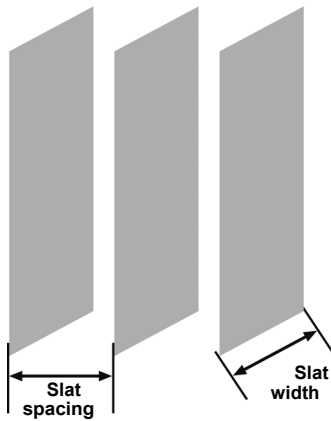


Fig. 11

Vertical slats

5.23.5. Slat position for horizontal slats

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the product parameters of the **Weather Station Suntracer KNX pro**, and, if necessary, corrected, so that the slat guide on the façade works properly.

The drive used for the shutters defines whether this adjustment can take place almost continuously during slat tracking in many small steps (as with SMI drives, for example) or whether it is only possible in a few large steps (as with most standard drives).

Slat position at 100%

After moving to the 100% slat position the slats form an angle α with the vertical. This angle must be entered in the parameter "Slat angle (in °) after slat move command 100%" (see *Sonnenschutzposition und Nachführungen*, page 106 following). The default setting is 10°.

The angle α is always measured to the vertical (perpendicular).



Fig. 12

Example of a typical slat position at move command 100% (angle α approx. 10°)

Slat position at 0%

After moving to the 0% slat position the slats form another angle with the vertical. This must be entered in the parameter "Slat angle (in °) after slat move command 0%" (see *Sonnenschutzposition und Nachführungen*, page 106 following). The default setting is 90° .

The possible angle at slat position 0% depends on the mechanics of the blind and the actuator.

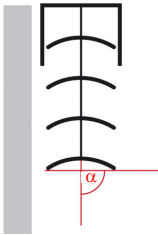


Fig. 13

Example 1 of a slat position at move command 0% (angle α approx. 90°)



Fig. 14

Example 2 of a slat position at move command 0% (angle α approx. 160°)

By setting the actual angle at 0% and 100% slat position the façade controller can convert the optimal slat angle for the actual sun position into a % command and transmit this to the actuator.

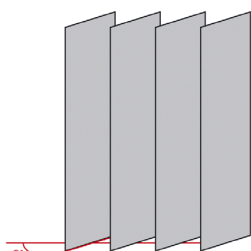
5.23.6. Slat position for vertical slats

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the product parameters of the **Weather Station Suntracer KNX pro**, and, if necessary, corrected, so that the slat guide on the façade works properly.

Slat position at 100%

After moving to the 100% slat position the slats form an angle α with the direction of movement. This angle must be entered in the parameter "Slat angle (in °) after slat move command 100%" (see *Sonnenschutzposition und Nachführungen*, page 106 following). The default setting is 10°.

The angle α is, seen from the outside, always measured to the left.



View from the outside

Fig. 15

Example of a slat position at move command 100% (angle α approx. 10°)

Position 0%

After moving to the 0% slat position the slats form another angle with the direction of movement. This must be entered in the parameter "Slat angle (in °) after slat move command 0%" (see *Sonnenschutzposition und Nachführungen*, page 106 following). The default setting is 90°.

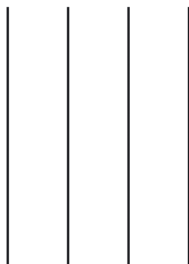


Fig. 16

Example 1 of a slat position at move command 0% (angle α approx. 90°)

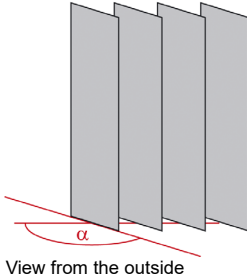


Fig. 17

Example 2 of a slat position at move command 0% (angle α approx. 130°)

The possible angle utilisation (difference between slat position 100% and 0%) depends on the mechanics of the blind and the actuator. Take care that the angle utilisation is not limited by the configuration of the actuator.

By setting the actual angle at 0% and 100% slat position the façade controller can convert the ideal slat angle for the actual sun position into a % command and transmit this to the actuator.

5.24. Simulation

Simulation objects help when testing the settings that have been made for façades. They are activated in the setting area *Façades*. By sending various values to the simulation objects number 656 to 671 different weather conditions and times of day can be tested. With the object "670 façade simulation reset (1:Reset)" you can delete all the simulation values that were set.

Activating simulation

In order to start the simulation, the simulation object for the façade must be activated. For façade 1, for example, the object is "672 façade 1 simulation (1: On | 0: Off) Set the value of this object to 1 to start the simulation for façade 1.

The facade and all other subordinate functions must be released (no active blocks) so that the simulated positions can be output.

When the simulation is activated the retraction delay (movement delay LONG) is set to 10 seconds. All other delay times are set to 0. All output objects of the relevant façade adapt their state to the values of the input objects for the simulation. The objects for normal operation are ignored.

Ending the simulation

Set the value of the object "Façade 1 simulation (1:on | 0:off)" to 0 to end the simulation for façade 1.

When deactivating the simulation, it is possible that when an automation is performed for the first time (e.g. sun automation) that the delay times from the simulation are still used. All output objects of the relevant façade adapt their state to the values of the input objects for normal operation. The simulation objects are once again ignored.

The most recently received values for the simulation objects and also for the objects for normal operation are retained when switching between simulation and normal mode. No reset takes place. This means that when the simulation is ended the last used value for normal operation is applied.

Calculation of the sun position for the simulation

During the simulation it is possible to have the sun position, dependent on the simulation object for date and time, sent to the bus. In order that this functions, a location must be set in the product parameters or the location received via GPS. As long as the location is unknown sun positions are not calculated in the simulation.

5.25. Status output

The status of the automation functions of the façade controller can be used for visualisation or other bus functions. The device offers various possibilities for the status output.

Object status

A status object is available for every function of the automatic.

For the rain alarm on façade 1, for example, it is the object No. 685 "Façade 1 rain alarm status".

Status of all façades

The status of all façades and their automatic functions can be issued in a compact form via an automatic status-bit object. For this purpose, a status of safety, automatic delay after an alarm, wind extension block, timed opening, timed/night closure, heat protection, pyranometer, rain automation, indoor temperature block, outdoor temperature block, shading because of the sun or automatic status, can be issued for every façade. Only the condition of *one* function of *one* façade is always issued. Using the object 655 one can switch to the next function (status-bit) and/or with the object 650 to the next façade.

The objects 648 to 655 are used for the compact output.

| No | Identification | Range | Function / Info |
|-----------|--------------------------------|--------------|--|
| 648 | Façade X channel Status output | Activation | Set to "active" in order to use the status output |
| 649 | Façade X channel Name | Façade | Output of the façade name (when changing façades). Name of the parameter can be adapted (see <i>Fassade Sicherheit</i> , page 92). |
| 650 | Façade X channel (1:+ 0:-) | Façade | Change to the next/previous façade. |

| No | Identification | Range | Function / Info |
|-----|---|--------|--|
| . | | | |
| 651 | Façade X channel Status text | Status | Output of the condition of the selected status-bit as text. Text can be adapted per parameter, see <i>Texte für Fassade (Objekt „Fass. X Kanal Zustand Text“)</i> , page 91. |
| 652 | Façade X channel Status-bit text | Status | Text output for visualising the selected status-bit (when changing the status bit). Text can be adapted per parameter, see <i>Texte für Status-Bits (Objekt „Fass. X Kanal Statusbit Text“)</i> , page 92. |
| 653 | Façade X channel Status-bit condition | Status | Output of the selected automatic status-bit |
| 654 | Façade X channel Delay | Status | Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set. |
| 655 | Façade X channel Status-bit selection (1:+ 0:-) | Status | Output of the automatic status-bit |

Status of a façade

The compact form of the status output described for all façades can also be performed for single façades. For this, the objects 731 to 736 are used for façade 1, for the other façades the objects named accordingly for the desired façade. The status output corresponds to that for all façades, only that here the objects for changing façades and the text object for the output of the name of the façade are missing. The text output with the object 733 "Façade 1 channel status-bit text" is also taken from the table *Texts for object „façade. X: Channel status-bit text“*.

5.26. Façade setting

If necessary, activate the façade controller (shading controller). When the façade controller is activated, the objects for the simulation of various parameter settings can also be activated. For this simulation, with the exception of a retraction delay (10 seconds), no time functions (delay times etc.) are used. Please observe the instructions for the simulation in chapter *Simulation*, page 107

| | |
|------------------------|-----------------|
| Use façades | <u>No</u> • Yes |
| Use simulation objects | <u>No</u> • Yes |

In addition, you must activate the required façades individually in order to load the menus for the safety and automation functions.

| | |
|-----------------|-----------------|
| Use façade 1 | <u>No</u> • Yes |
| Use façades ... | <u>No</u> • Yes |
| Use facade 8 | <u>No</u> • Yes |

Furthermore, fundamental settings for the façade controller are made in the façade menu, e.g. for wind and rain alarm, twilight, outdoor temperature sensor, frost and heat protection and the status output.

General settings

Set, in which cases threshold values received are to be kept per object. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|---|--|
| Maintain the target threshold values received via communication objects | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
|---|--|

Live monitoring

If the functionality of the wind and rain sensors is to be checked, use wind and rain object monitoring. If data is not regularly being received from the sensors, a defect is assumed and the corresponding alarm is triggered.

| | |
|---------------------------------------|------------------------|
| Using wind and rain object monitoring | <u>No</u> • Yes |
| Monitoring period | <u>5 s</u> ... 2 h |

Independently of live monitoring, the measured values for wind, outdoor temperature and global radiation (pyranometer) are monitored **for changes**. After 48 hours without any change in the measured values a defect is assumed and the corresponding function is set to alarm or block. No settings are required for this.

Wind and rain alarm

Set the automation block for wind and rain alarm. Please observe, that this block begins after the end of the wind or rain alarm and is **only valid for automation**. It avoids frequent extension and retraction during rapidly changing weather conditions. Manual operation is again possible directly after the end of the alarm.

The duration of the blocking can be specified by parameter or received as an object via the bus.

| | |
|--|---------------------------|
| Preset automation blocking duration per | <u>Parameter</u> • object |
| Automation blocking duration after wind and rain alarm (in minutes) <i>(for definition via an object only valid until first call)</i> | 0 ... 360; <u>5</u> |

When specifying the blocking duration **by object** the minimum and maximum blocking duration and the increment for the change to the parameter are also defined.

| | |
|--------------------------------------|----------------------|
| Minimum automation blocking duration | <u>0</u> ... 360 |
| Maximum automation blocking duration | 0 ... 360; <u>30</u> |
| Blocking duration increment | 0 ... 50; <u>1</u> |

Rain automation

For external shades either a rain alarm or a rain automation can be set which have opposite functions. The selection is made in the menu *Façades: Façade X safety*.

The rain alarm protects the shading against getting wet. The rain automation ensures that the shading is, under certain conditions, extended during rainfall. The curtain can thus be cleaned by natural means. Please observe the specifications from the manufacturer of the curtain and set the rain alarm or automation accordingly.

If a rain automation has been set for the shading, then the extension delay can be specified directly via parameter or received as an object via the bus.

| | |
|--|---------------------------|
| Preset extension delay for rain automation per | <u>Parameter</u> • object |
| Extension delay on rain automation (in minutes) <i>(for definition via an object only valid until first call)</i> | 0 ... 360; <u>5</u> |

Rain alarm: Shading is retracted as soon as precipitation is signalled and is blocked during the precipitation.

Rain automation: Precipitation is only considered in pre-set periods. A rain position is approached. The extension delay during precipitation can be set.

Night

Set the night threshold value. The threshold value can be specified directly by parameter or received as an object via the bus. The device's internally measured value is used for brightness. The switching delay between day and night is 1 minute.

| | |
|--|---------------------------|
| Preset threshold value for night per | <u>Parameter</u> • object |
| Night is determined at a light level below (in Lux) <i>(for definition via an object only valid until first call)</i> | 1 ... 200; <u>10</u> |

When specifying the threshold value **by object** the minimum and maximum values that can be set for twilight values and the increment for the change are also defined.

| | |
|--|-----------------------|
| Minimum variable value (in Lux) for twilight | 1 ... 200; <u>2</u> |
| Maximum variable value (in Lux) for twilight | 1 ... 200; <u>100</u> |
| Increment (in Lux) | 1 ... 10; <u>2</u> |

Outdoor temperature

Define which outdoor temperature value for frost alarm, heat protection and outdoor temperature block are to be used. The device's own internal values or a value received via a communication object can be used.

| | |
|---------------------|---|
| Measured value from | <u>Internal sensor</u> • communication object |
|---------------------|---|

After 48 hours without any change in the value a defect is assumed and the frost alarm, heat protection and outdoor temperature block are activated.

Heat protection

Define the outdoor temperature for the heat protection. The threshold value can be specified directly by parameter or received as an object via the bus.

| | |
|---|---------------------------|
| Preset threshold value for heat protection per | <u>Parameter</u> • object |
| Activate heat protection, if outdoor temperature is exceeded. | |
| Temperature (in 0.1°C) <i>(for definition via an object only valid until first call)</i> | 100 ... 500; <u>350</u> |
| Hysteresis (in 0.1°C) | 10 ... 200; <u>50</u> |

When specifying the threshold value **by object** the minimum and maximum values that can be set for temperature and the increment for the change are also defined.

| | |
|---|-------------------------|
| Minimum temperature that can be set (in 0.1 °C) | 100 ... 500; <u>200</u> |
| Maximum temperature that can be set (in 0.1 °C) | 100 ... 500; <u>380</u> |
| Increment (in 0.1 °C) | 1 ... 10; <u>5</u> |

Frost alarm

This frost alarm is only used within the façade controller and is independent of the general parameter *Frost alarm* (see *Frost alarm*, page 112).

The frost alarm is active in cold outdoor temperatures in combination with precipitation. The conditions can be specified directly by parameter or received as an object via the bus.

| Preset frost protection values per | Parameter • object |
|---|-------------------------|
| Start frost alarm when | |
| an external temperature of (in 0.1 °C) is not reached. <i>(for definition via an object only valid until first call)</i> | -200 ... 300; <u>20</u> |
| during or until (in hours) after precipitation. <i>(for definition via an object only valid until first call)</i> | 1 ... 10; <u>5</u> |
| End frost alarm when | |
| an external temperature of (in 0.1 °C) for more than (in hours) is exceeded. | -200 ... 300; <u>50</u> |
| | 1 ... 10; <u>5</u> |

When specifying the conditions **by object** the minimum and maximum temperature and time values that can be set and the temperature increment for the change are also defined.

| | |
|---|--------------------------|
| Start frost alarm when | |
| Minimum outdoor temperature that can be set (in 0.1 °C) | -200 ... 300; <u>-10</u> |
| Maximum outdoor temperature that can be set (in 0.1 °C) | -200 ... 300; <u>40</u> |
| Minimum start-time that can be set (in 0.1 °C) | <u>1</u> ... 10 |
| Maximum start-time that can be set (in 0.1 °C) | 1 ... <u>10</u> |
| End frost alarm when | |
| Minimum outdoor temperature that can be set (in 0.1 °C) | -200 ... 300; <u>20</u> |
| Maximum outdoor temperature that can be set (in 0.1 °C) | -200 ... 300; <u>100</u> |
| Minimum start-time that can be set (in 0.1 °C) | <u>1</u> ... 10 |
| Maximum start-time that can be set (in 0.1 °C) | 1 ... <u>10</u> |
| Temperature increment (in 0.1 °C) | 0 ... 250; <u>5</u> |
| Time increment ± 1 hour | |

Status output façade

Information on the various possibilities for the status output can be found in chapter *Status output*, page 108. In principal the status output is a singular function, but, in compact form, possible for singular and for all façades possible. For the output in a compact form pre-sets are made here and the output texts defined.

Set which value in the status release object **for all façades** means active respectively inactive.

| | |
|---------------------------------------|--|
| Analysis of the status release object | • <u>1 = activated</u> <u>0 = deactivated</u> • 0 = activated 1 = deactivated |
| value until first call | <u>0</u> • 1 |

For the status output the status bit selected (i.e. the function) and, if applicable, also the active façade is output. As a result, it can easily be visualised which status is just being issued. The texts can be adapted individually and should, as a maximum, be 14 characters long.

Texts for façade (Object "Fac. X channel state text")

| | |
|-----------------------------|-----------------------------|
| Safety | Safety [Free text] |
| Automatic delay after alarm | Autom. delay [free text] |
| Wind extension block | Wind ext. bl. [free text] |
| Time open | Time - open [Free text] |
| Outdoor temperature block | Outd. temp. Sp. [free text] |
| Time/night closure | Time/night clo. [free text] |
| Heat protection | Heat protection [Free text] |
| Pyranometer | Pyranometer [Free text] |
| Rain automation | Rain automation [Free text] |
| Interior temperature block | Int. temp. Sp. [free text] |
| Shading because of the sun | Brightness [Free text] |
| No automation active | No automat. [free text] |

Texts for status bits (Object "Fac. X channel status bit text")

| | |
|---|-------------------------------|
| Blocking the automation via Communications object | Auto. Block [Free text] |
| Wind extension block status | Wind ext. bl. [free text] |
| Wind alarm status | Wind alarm [Free text] |
| Rain alarm status | Rain alarm [Free text] |
| Rain automation status | Rain automation [Free text] |
| Frost alarm status | Frost alarm [Free text] |
| Safety status | Safety [Free text] |
| Time open status | Time open [Free text] |
| Outdoor temperature blocking status | Out-temp block [Free text] |
| Night closure status | Night closure [Free text] |
| Timed closure status | Timed closure [Free text] |
| Heat protection status | Heat protection [Free text] |
| Pyranometer status | Pyranometer [Free text] |
| Indoor temperature blocking status | Indoor-temp block [Free text] |

| | |
|---|---------------------------|
| Sun shining on façade status | Sun on fac. [Free text] |
| Sun bright, short retraction delay Status | Bright. short [Free text] |
| Sun bright, long retraction delay Status | Bright. long [Free text] |

5.26.1. Façade safety

Set the basic and safety relevant functions for the façade.

Enter a name for the façade and specify whether simulation objects are to be loaded. Simulation help when testing the settings that have been made. For this observe the chapter *Simulation*, page 107.

For shutters and slat blinds use the setting - shade has slats. As a result, further settings, especially for slats, are possible.

| | |
|----------------------------|----------------------|
| Name | Façade 1 [Free text] |
| Use simulation objects | <u>No</u> • Yes |
| Does the shade have slats? | <u>No</u> • Yes |

Configure the blocking for the façade and define how safety/ alarm objects and movement/position objects are to be handled.

| | |
|---|--|
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>1 = block 0 = release</u> • <u>0 = block 1 = release</u> |
| Blocking object value before first call | <u>0</u> • 1 |
| Action after locking | <ul style="list-style-type: none"> • <u>executing the last automation command</u> • Waiting for next automation command |
| Consolidate wind, frost and rain alarms to safety object? | <u>No</u> • Yes |
| Send pattern of the safety and alarm status objects | <ul style="list-style-type: none"> • <u>on change</u> • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |
| Send pattern of the move and slat position objects | <ul style="list-style-type: none"> • <u>on change</u> • on change and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |

Set, in which cases threshold values received are to be kept per object.

| | |
|---|--|
| Maintain the target threshold values received via communication objects | <ul style="list-style-type: none"> • <u>never</u> • after power supply restoration • after power supply restoration and programming |
| (applicable for façade safety and façade automation) | |

This setting also affects the release objects of the facade automation (opening time, time and night closing, heat protection, pyranometer, rain automation, indoor temperature block, outdoor temperature block and solar protection automation).

Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Priorities

The functions of the façade are arranged according to their priorities. First named have higher priority. 1. Wind, 2. Frost, 3. Rain.

Wind alarm and wind extension block

If the wind threshold values are exceeded, a wind alarm can be triggered, i.e. the shade is retracted.

If the wind extension block is active, the curtain can no longer be extended (not even by manual commands). If the curtain has already been extended, it remains in its position.

If the wind alarm is used, then, as a precaution, the alarm is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant wind sensor.

Set with what the wind alarm and, if desired, wind extension blocking is to be defined.

| | |
|-----|--|
| Use | <ul style="list-style-type: none"> • <u>No</u> • as wind alarm per threshold value • as wind alarm per bit object • as wind alarm and extension block per threshold value • as wind alarm per threshold value/extension block per bit object • as wind alarm per bit object/extension block per threshold value • as wind alarm/wind extension block per bit object |
|-----|--|

If **alarm or extension block per bit object** is defined, no further settings are required. The wind alarm is defined externally and the alarm or block information is received by the weather station as a 1-bit object. The duration of blocking by the auto-

mation after a wind alarm is set in the "façades" menu (see *Wind and rain alarm*, page 110).

If **Alarm or extension block per threshold value** is defined, then set which sensors are relevant for this. The wind value measured internally in the device can be used, but also the values of the external wind communication objects assigned to the façades. With several sensors, only one must exceed the threshold value in order for the alarm/block to become active.

In addition, a delay can be specified per parameter. It specifies the time that elapses from the point at which the threshold value is exceeded until the wind alarm or the wind extension block is triggered. If the value falls below the threshold value, a fixed holding time of 5 minutes elapses before the wind alarm / the wind extension block is deactivated again. If the threshold value is exceeded within 5 minutes, the holding time starts again from the beginning.

After the five-minute holding time has elapsed, the automatic block starts. It is set in the "Façades" menu (see *Wind and rain alarm*, page 110). Manual driving is possible again immediately after the holding time has elapsed.

| | |
|-----------------------------------|-----------------|
| Internal sensor measurement | No • <u>Yes</u> |
| Communication object measurements | |
| Façade wind 1 ... 12 | <u>No</u> • Yes |

Select whether the threshold value is to be specified per parameter or via a communication object.

| | |
|--------------------------------|---------------------------|
| Threshold value setpoint using | <u>Parameter</u> • object |
|--------------------------------|---------------------------|

When the **threshold value per parameter** is specified, then the value and delay time are set.

| | |
|--|---------------------------|
| Wind threshold value (in 0.1 m/s) prevents shading (extension block) | 0 ... 255; <u>40</u> |
| Wind alarm threshold (in 0.1 m/s) retracts the shade (wind alarm) | 0 ... 255; <u>40/80</u> ; |
| Wind alarm delay (in s) | 0 ... 255; <u>2</u> |

When the **threshold value per communication object** is specified, then the starting value, minimum and maximum threshold value and delay time are set.

| | |
|--|-----------------------|
| Wind alarm threshold (in 0.1 m/s) retracts the shade | 0 ... 255; <u>80</u> |
| Minimum threshold value (in 0.1 m/s) | 0 ... 255; <u>20</u> |
| Maximum threshold value (in 0.1 m/s) | 0 ... 255; <u>120</u> |
| 0.5 m/s increment | |
| Wind alarm delay (in s) | 0 ... 255; <u>2</u> |

Frost alarm

Set whether the frost alarm is to be used for this façade. Further parameters for the frost alarm are set in the "façades" menu (see *Frost alarm*, page 112).

| | |
|-----|-----------------|
| Use | <u>No</u> • Yes |
|-----|-----------------|

If the frost alarm is used, then, as a precaution, the alarm is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant outdoor temperature sensor.

Rain

In the event of precipitation either a rain alarm can be triggered for the façade, i.e the shade is retracted and blocked, or a rain automation is executed. The rain automation moves to a certain position and is valid for the periods set. At other times with "rain automation" set the shade does not react to precipitation.

Further parameters for the rain automation are set in the "façades" menu (see *Rain automation*, page 111). Rain alarm does not have any extension delay.

Set whether precipitation should trigger the rain alarm or the rain automation.

| | |
|-----|--|
| Use | <ul style="list-style-type: none"> • <u>No</u> • as rain alarm • as rain automation |
|-----|--|

If in the event of precipitation, the **rain automation** is triggered, then set in which periods of the week and the calendar-timer, the rain movement position is to be travelled to. The periods are defined in the menu "week timer" or "month timer" (see *Weekly timer*, page 135 and *Calendar timer*, page 137).

| | |
|---------------------------|-----------------|
| Use rain automation | |
| with week timer | |
| Period 1 24 | <u>No</u> • Yes |
| with calendar timer | |
| Period 1...4 Sequence 1/2 | <u>No</u> • Yes |

Then also set the movement position.

| | |
|---|------------------|
| Movement position (in %) | <u>0</u> ... 100 |
| Slat position (in %) (only for window shades with slats) | <u>0</u> ... 100 |

Define the value of the release object for the rain automation. Using the release object, the rain automation can be deactivated at short-notice.

| | |
|--|---|
| Evaluation of the rain automation - release object | <u>1 = activated</u> 0 = deactivated 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Define the follow-up time The follow-up time is the delay time after the end of the precipitation warning.

| | |
|--|---------------------|
| Rain automation follow-up time in minutes | 1 ... 120; <u>5</u> |
|--|---------------------|

Within the automation functions the rain automation has a low priority. To display the sequence, rain automation is also listed in the *Façade X automation* without the settings being possible.

5.26.2. Façade automation

Set automation for the façade

Priorities

The functions of the façade are arranged according to their priorities. First named have higher priority. 1. Time open, 2. Time and night closure, 3. Heat protection, 4. Pyranometer 5. Rain automation 6. Interior temperature block, 7. Outdoor temperature block, 8. Solar protection automation.

Time open

The curtain can, at certain times, be opened compulsorily or stay open. For time opening, a movement position can be defined.

Set whether a time opening is to be used.

| | |
|-----|-----------------|
| use | <u>No</u> • Yes |
|-----|-----------------|

Set in which periods of the week and the calendar-timer, the time opening movement position is to be approached. The periods are defined in the menu "week timer" or "month timer" (see *Weekly timer*, page 135 and *Calendar timer*, page 137).

| | |
|---------------------------|-----------------|
| Use time opening | |
| with week timer | |
| Period 1 24 | <u>No</u> • Yes |
| with calendar timer | |
| Period 1...4 Sequence 1/2 | <u>No</u> • Yes |

Set the movement position. Define the value of the release object for time opening. Using the release object, time opening can be deactivated at short-notice.

| | |
|---|---|
| Movement position (in %) | <u>0</u> ... 100 |
| Slat position (in %) (only for window shades with slats) | <u>0</u> ... 100 |
| Evaluation of the time opening-release object | <u>1 = activated</u> 0 = deactivated 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Time and night closure

The curtain can, at certain times, and at night, be closed compulsorily. For the time and night closure a movement position can be defined.

Set whether a time and/or night closure is to be used

| | |
|------------------------|-----------------|
| Use | <u>No</u> • Yes |
| Use timed closure | <u>No</u> • Yes |
| Use night-time closure | <u>No</u> • Yes |

For the **timed closure**, set in which periods of the week and the calendar-timer, the timed closure movement position is to be travelled to. The periods are defined in the menu "week timer" or "month timer" (see *Calendar timer*, page 137 and *Calendar timer*, page 137).

| | |
|---------------------------|-----------------|
| Use time opening | |
| with week timer | |
| Period 1 24 | <u>No</u> • Yes |
| with calendar timer | |
| Period 1...4 Sequence 1/2 | <u>No</u> • Yes |

Define the value of the release object for the timed closure. Using the release object, the timed closure can be deactivated at short-notice.

| | |
|--|---|
| Evaluation of the timed closure-release object | <u>1 = activated</u> 0 = deactivated 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Define the value of the release object for the **night closure**. Using the release object, the night closure can be deactivated at short-notice.

| | |
|--|---|
| Evaluation of the timed closure-release object | <u>1 = activated</u> 0 = deactivated 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

The brightness below which the "night" is recognised is set in the "façades" menu (see *Night*, page 111).

You can define that the **time and night closure** are only performed once per period/night. Then also set the movement position.

| | |
|---|------------------|
| Night and timed closure only once | <u>No</u> • Yes |
| Position for night or timed closure | |
| Movement position (in %) | 0 ... <u>100</u> |
| Slat position (in %) (only for window shades with slats) | 0 ... <u>100</u> |

Heat protection

Above a certain outdoor temperature, a heat protection can be travelled to. Further parameters for heat protection are set in the "façades" menu (see *Heat protection*, page 121).

Define the value of the release object. Using the release object, the heat protection can be deactivated at short-notice.

| | |
|--|--|
| Evaluation of the heat protection object | <u>1 = activated</u> <u>0 = deactivated</u> 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Set the movement position.

| | |
|--|----------------------|
| Position for heat protection | |
| Movement position (in %) | 0 ... <u>100</u> |
| Slat position (in %) <i>(only for window shades with slats)</i> | 0 ... 100; <u>90</u> |

If heat protection is used, then, as a precaution, protection is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant temperature sensor.

Pyranometer (global radiation)

Above a certain global radiation value, a protection position can be taken up.

Set whether the global radiation is to be considered. The threshold value can also be set by "changeable per object".

| | |
|-----|--|
| Use | <ul style="list-style-type: none"> • <u>No</u> • <u>Yes</u> • Changeable per object |
|-----|--|

Then set the threshold value for the global radiation and the hysteresis for the event that the value is not reached.

| | |
|--|--|
| Deactivate block for outdoor temperatures above | |
| Threshold value (in W/m ²) <i>(if changeable: until first call)</i> | 0 ... 2500; <u>500</u> |
| Hysteresis threshold value in | percent • <u>Watt/m²</u> |
| Hysteresis of the threshold value (in 0.1 °C) (in %) | 0 ... 2500; <u>400</u> 0 ... 100; <u>30</u> |

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

| | |
|--|------------------------|
| Minimum threshold value that can be set (in W/m ²) | 0 ... 2500; <u>100</u> |
| Maximum threshold value that can be set (in W/m ²) | 0 ... <u>2500</u> |
| Threshold value increment (in W/m ²) | 0 ... 200; <u>50</u> |

Set the movement position and define the value of the release object. Using the release object, the pyranometer controller can be deactivated at short-notice.

| | |
|---|---|
| Movement position pyranometer | |
| Movement position (in %) | 0 ... <u>100</u> |
| Slat position (in %) (only for window shades with slats) | 0 ... 100; <u>90</u> |
| Evaluation of the Pyranometer release object | <u>1 = activated 0 = deactivated</u> 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

If global radiation monitoring is used, then, as a precaution, the protection is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant pyranometer.

Rain automation

If rain protection has configured as rain automation, then its priority is between the pyranometer controller and the interior temperature block. Rain automation is set in the general settings of the *façade* (see chapter *Rain automation*, page 122) and at *façade X safety* (see chapter *Rain*, page 118).

Interior temperature block

Below a certain interior temperature, the curtain can be prevented from opening.

Set whether an interior temperature block is to be used. The threshold value can also be set by "changeable per object".

| | |
|-----|---|
| Use | <ul style="list-style-type: none"> • <u>No</u> • Yes • Changeable per object • are activated via the bit object |
|-----|---|

Then set the threshold value for the temperature block and the hysteresis for the event that the value is not reached.

| | |
|---|------------------------------|
| Allow shading at internal temperature above | |
| Threshold value (in 0.1°C increments) (if changeable: until first call) | -32768 ... 32767; <u>200</u> |
| Hysteresis (in 0.1°C) | -200 ... 300; <u>20</u> |

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

| | |
|--|------------------------------|
| Minimum variable per object Threshold value (in 0.1°C increments) | -32768 ... 32767; <u>100</u> |
| Maximum variable per object Threshold value (in 0.1°C increments) | -32768 ... 32767; <u>350</u> |
| Increment for threshold value change (in 0.1°C) | 1 ... 20; <u>5</u> |

When specifying the threshold value **by bit object** the interior temperature block object is also defined.

| | |
|---|---|
| Assessment of the indoor temperature blocking object | <u>1 = Lock 0 = Release</u> 0 = Lock 1 = Release |
| Action until first communication | <u>disable</u> • enable |

Define the value of the release object for the interior temperature block. Using the release object, the interior temperature block can be deactivated at short-notice.

| | |
|---|---|
| Evaluation of the interior temperature blocking release object | <u>1 = activated 0 = deactivated</u> 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Solar protection automation

If none of the blocks is active, then the position of the sun and the brightness are checked and is, corresponding to the solar protection automation, shaded.

Set whether solar protection automation is to be used.

| | |
|-----|-----------------|
| Use | <u>No</u> • Yes |
|-----|-----------------|

Define the value of the release object for solar protection automation. Using the release object, solar protection automation can be deactivated at short notice.

| | |
|--|---|
| Evaluation of the solar automation release object | <u>1 = activated 0 = deactivated</u> 0 = activated 1 = deactivated |
| value until first call | 0 • <u>1</u> |

Sun position

Set the direction and height of the sun for shading. The angle, which is specified for the direction of the sun (azimuth), is aligned according to the orientation of the façade. In addition, the angle of the façade and obstacles which cast a shadow on the façade, such as, for example, a wall or overhanging roof, can also be taken into account in the setting for sun direction (azimuth) and sun height (elevation).

Top view

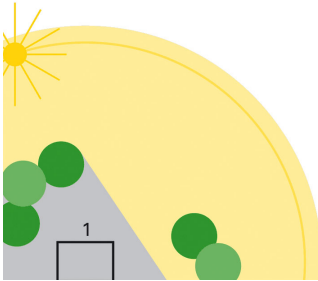


Fig. 18

1a: Sun elevation (Azimuth)

In the morning the building is fully shaded by surrounding trees.

Top view

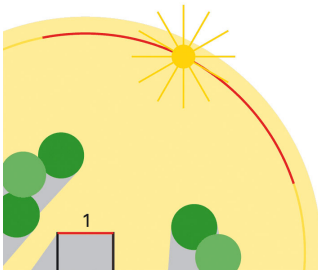


Fig. 19

1b: Sun elevation (Azimuth)

For façade 1, shading must only be active in the azimuth marked red, as the sun can then shine on to the building without obstruction.

Side view

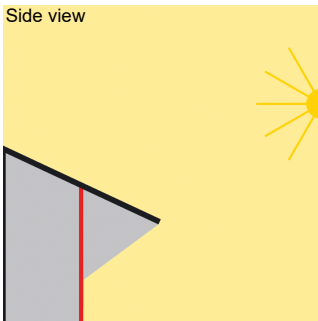


Fig. 20

2: Sun position (Elevation)

When the sun's position is high, the façade is only shaded by the roof overhang. Shading is only necessary if the sun is low (in the figure approx. below 53°).

Select whether the ranges for the direction and height of the sun are to be specified per parameter or via a communication object.

Specification for the ranges of sun direction and height by

Parameter • object

If the ranges are specified **by parameter**, then several ranges can be specified. Specify the direction for the shading, either with the defined compass direction or with "angle range" and by inputting the values exact to a degree. If the ranges are specified **by**

communication object, then only the starting values for direction and height are defined, that are valid until the first call.

| | |
|---|--|
| Number of ranges for sun direction and height | <u>1</u> • 2 • 3 |
| Range 1 / 2 / 3 | |
| Sun direction (when specified by parameter: valid until first call) | <ul style="list-style-type: none"> • <u>All sides (0° ... 360°)</u> • West (180° ... 360°) • South-West (135° ... 315°) • South (90° ... 270°) • South-East (45° ... 225°) • East (0° ... 180°) • Angle range |
| at and above (in °) (for angle range) | 0 ... 360; <u>90</u> |
| until (in °) (for angle range) | 0 ... 360; <u>270</u> |
| Sun elevation (when specified by parameter: valid until first call) | <ul style="list-style-type: none"> • <u>every height (0° ... 90°)</u> • Angle range |
| at and above (in °) (for angle range) | <u>0</u> ... 90 |
| until (in °) (for angle range) | 0 ... <u>90</u> |
| Incrementally in ° (for specification by parameter) | 1 ... 10; <u>2</u> |

For sun direction and height, a fixed hysteresis of 1° is valid

Brightness value (sensor selection)

Next you select which brightness value (sensor) is to be relevant for the shading of the façade. The highest currently measured value of the five internal sensors can be used as the brightness value (since this maximum value in conjunction with the position of the sun provides the best basis for shading control, the 5 individual sensor values are not output), or a value that was received via a communication object.

| | |
|------------------------------|---|
| Brightness sensor selection: | <ul style="list-style-type: none"> • <u>Internal sensors (maximum value)</u> • via communication object |
|------------------------------|---|

Brightness threshold value

Select whether the brightness threshold value is to be specified per parameter or via a communication object. Please observe that the communication object outputs the threshold value in *Lux* the threshold value, however is set in *Kilolux*.

| | |
|---|---------------------------|
| Threshold value definition for brightness per | <u>Parameter</u> • object |
|---|---------------------------|

Set the brightness threshold value and the hysteresis for the event that the value is not reached. If the value is specified via communication object, then a starting value and the possible setting range is defined.

| | |
|--|--|
| Threshold value (in kLux) (when specified by parameter: valid until first call) | 1 ... 150; <u>60</u> |
| Minimum threshold value that can be set (in kLux) (for specification by parameter) | 1 ... 150; <u>10</u> |
| Maximum threshold value that can be set (in kLux) (for specification by parameter) | 1 ... 150; <u>80</u> |
| Increment for threshold value (kLux) (for specification by parameter) | 1 ... 5; <u>5</u> |
| Hysteresis threshold value in | in percent (%) • <u>in kLux</u> |
| Hysteresis of the threshold value (in kLux) (in %) | 1 ... 150; <u>20</u> 0 ... 100; <u>30</u> |

Travel delays

For the shading there are three travel delays:

The **extension delay** defines the waiting time for the sun automation after the brightness threshold value has been exceeded.

At the end of the **short delay time** after the brightness value has not been reached an intermediate position is approached. For example, here a position can be defined that only differs from the shading position "extended" by the slat position on the shutter. The shade does not immediately go up, but lets in somewhat more light. This position is set further down in the same menu.

The **retraction delay** defines the waiting time for the retraction after the brightness threshold value has not been reached.

Select whether the travel delay is to be specified per parameter or via objects.

| | |
|---|---------------------------|
| Specifying the withdrawal and extension delay | <u>Parameter</u> • object |
|---|---------------------------|

Set the delay times. If the delays are specified via communication object, then a starting value and the possible setting range is defined.

| | |
|---|------------------|
| Extension delay (in minutes) (when specified by parameter: valid until first call) | <u>1</u> ... 240 |
| Minimum extension delay that can be set (in minutes) (for specification by parameter) | <u>1</u> ... 240 |

| | |
|---|------------------------|
| Maximum extension delay that can be set (in minutes) <i>(for specification by parameter)</i> | 1 ... 240; <u>40</u> |
| Incrementally (in minutes) <i>(for specification by parameter)</i> | <u>1</u> ... 10 |
| Brief delay (in seconds) <i>(when specified by parameter: valid until first call)</i> | 1 ... 3600; <u>10</u> |
| Minimum short delay (in seconds) <i>(for specification by parameter)</i> | <u>1</u> ... 3600 |
| Maximum short delay (in seconds) <i>(for specification by parameter)</i> | 1 ... 3600; <u>120</u> |
| Increment (in seconds) <i>(for specification by parameter)</i> | <u>1</u> ... 240 |
| Retraction delay (in minutes) <i>(when specified by parameter: valid until first call)</i> | 1 ... 240; <u>30</u> |
| Minimum extension delay that can be set (in minutes) <i>(for specification by parameter)</i> | 1 ... 240; <u>10</u> |
| Maximum extension delay that can be set (in minutes) <i>(for specification by parameter)</i> | 1 ... <u>240</u> |
| Incrementally (in minutes) <i>(for specification by parameter)</i> | <u>1</u> ... 10 |

Outdoor temperature block

Below a certain outdoor temperature, the shade is withdrawn.

Set whether an outdoor temperature block is to be used. The threshold value can also be set by "changeable per object".

| | |
|-----|---|
| Use | <ul style="list-style-type: none"> • <u>No</u> • Yes • Changeable per object |
|-----|---|

Then set the threshold value for the temperature block and the hysteresis for the event that the value is exceeded.

| | |
|---|-------------------------|
| Deactivate block for outdoor temperatures above | |
| Threshold value (in 0.1°C increments) <i>(if changeable: until first call)</i> | -200 ... 300; <u>50</u> |
| Hysteresis (in 0.1°C) | -200 ... 300; <u>30</u> |

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

| | |
|--|--------------------------|
| Minimum variable per object Threshold value (in 0.1°C increments) | -200 ... 300; <u>0</u> |
| Maximum variable per object Threshold value (in 0.1°C increments) | -200 ... 300; <u>200</u> |
| Increment for threshold value change (in 0.1°C) | 1 ... 20; <u>5</u> |

Define the value of the release object for the outdoor temperature block. Using the release object, the outdoor temperature block can be deactivated at short-notice.

| | |
|---|--|
| Evaluation of the outdoor temperature - release object | <u>1 = activated 0 = deactivated</u> <u>0 = activated 1 = deactivated</u> |
| value until first call | 0 • <u>1</u> |

If the outdoor temperature block is used, then, as a precaution, the block is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant temperature sensor.

Solar protection position and auto-guiding

Solar protection extends the shading automatically if

- the sun is coming from the set direction and
- the brightness of the set threshold value
- is exceeded over a period longer the extension delay time.

For the movement position "Solar protection" auto-guiding can be set. Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 115).

Without auto-guiding a fixed position is travelled to.

With a four step slat guiding concept, a defined movement position is travelled to and the slats are tilted in four steps according to the position of the sun.

For slat auto-guiding, the direction and slant of the façade are taken into account, and internally the angle of the slat so calculated that no direct light can shine through the slats.

For shadow edge tracking, a fixed slat position is set (only for shades with slats). For the movement position, the orientation and slant of the façade and the height of the window are taken into consideration so that it can be defined how far the sun may shine into the room.

Shadow edge tracking and slat auto-guide are also possible in combination.

**Before setting auto-guide, please read the instructions in chapter
Optimal usage of façade controller functions, page 100**

| | |
|---------------------------|---|
| Solar protection position | <ul style="list-style-type: none"> • <u>Without auto-guide</u> • Slats in 4 stages • Shadow edge tracking • Slat auto-guide • Shadow edge tracking and slat auto-guide |
|---------------------------|---|

Without auto-guiding a fixed position is travelled to.

| | |
|---|----------------------|
| Movement position (in %) | 0 ... <u>100</u> |
| Slat position (in %) (only for window shades with slats) | 0 ... 100; <u>80</u> |

With the **four step slat guiding** the fixed movement position and the four slat angles are defined (only for shades with slats).

| | |
|--|----------------------|
| Movement position (in %) | 0 ... <u>100</u> |
| Slat position (in %) for sun height (in °) | |
| 0° to 15° | 0 ... <u>100</u> |
| 15° to 30° | 0 ... 100; <u>80</u> |
| 30° to 45° | 0 ... 100; <u>65</u> |
| 45° to 90° | 0 ... 100; <u>50</u> |

For the **slat guiding** the fixed movement position and the characteristics of the façade and the slats are specified (only for shades with slats). The device calculates the ideal slat position, so that no direct light can enter through the slats, but such that, at all times, as much indirect light as possible lights up the room.

With the setting for the minimum change of angle for transmission of a movement command, the "increment" respectively the frequency of the angle correction can be adjusted. Hereby, the technical possibilities of the drive used must be taken into consideration. The minimum change of angle is taken into account in the device internal calculation, so that direct sunlight can be prevented, even for large steps.

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the parameters, and, if necessary, corrected, so that the slat guide on the façade works properly. For this purpose, observe chapter *Slat position for horizontal slats*, page 104 respectively *Slat position for vertical slats*, page 106.

| | |
|--|------------------------------|
| Movement position (in %) | 0 ... <u>100</u> |
| Orientation of the façade (North=0°, East=90°, South=180°, West=270°) | 0 ... 360; <u>180</u> |
| Inclination of the façade in ° (0° = no inclination) | -90 ... 90; <u>0</u> |
| see <i>Orientation and inclination of the façade</i> , page 101 | |
| Slat orientation | <u>Horizontal</u> • vertical |
| Slat width (in mm) | 0 ... 1000; <u>80</u> |

| | |
|--|-----------------------|
| Slat distance (in mm) | 0 ... 1000; <u>75</u> |
| see <i>Slat types and determination of width and spacing</i> , page 103 | |
| Minimum change of angle for transmitting a new slat position | 1 ... 90; <u>10</u> |
| Slat angle (in °) after after slat move command 0% | 0 ... 180; <u>90</u> |
| Slat angle (in °) after after slat move command 100% | 0 ... 180; <u>10</u> |
| see <i>Slat position for horizontal slats</i> , page 104 respectively <i>Slat position for vertical slats</i> , page 106 | |

For the **shadow edge auto-guide** a fixed slat position is set (only for shades with slats). For the movement position the orientation and angle of the façade and the height of the windows (glass height) are specified. The device calculates the ideal position so that the specified maximum depth of penetration into the room for the sun, is not exceeded.

Using the setting for, from which shadow edge shift, in centimetres, a move command is to be transmitted, the frequency of the position correction can be adjusted. Hereby, the technical possibilities of the drive used must be taken into consideration.

See also chapter *Shadow edge tracking and slat tracking*, page 102.

| | |
|---|------------------------|
| Slat position (in %) | 0 ... 100; <u>80</u> |
| Orientation of the façade (North=0°, East=90°, South=180°, West=270°) | 0 ... 360; <u>180</u> |
| Inclination of the façade in ° (0° = no inclination) | -90 ... 90; <u>0</u> |
| Window height in cm | 0 ... 1000; <u>150</u> |
| Maximum depth of penetration by the sun into the room in cm | 10 ... 250; <u>50</u> |
| From a shadow shift of cm auto-tracking is performed | 1 ... 50; <u>10</u> |

Please observe: The slant of the façade and the angle set for the height of the sun should be compatible. Thus, if the façade is slanted forwards by 10°, then the sun only needs to be considered up to a height of 80°. Enter this separately with the parameters the parameter for sun direction and height (see chapter *solar protection automation, Sun position*, page 123).

Intermediate position for the short retraction delay time

Solar protection automation moves to the "short delay" position if

- the shading has been extended by the solar protection automation and
- the brightness is then below the value (threshold value - hysteresis)
- for longer than the short delay time.

For the movement position "short retraction delay" a movement position and a slat position can be set. Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 115).

| | |
|--------------------------|------------------|
| Use movement position | <u>No</u> • Yes |
| Movement position (in %) | 0 ... <u>100</u> |
| Use slat position | <u>No</u> • Yes |
| Slat position (in %) | <u>0</u> ... 100 |

Standard movement position

Solar protection automation is terminated and the standard position is approached.

- the sun is not coming from the set shading direction or
- the brightness is then below the value (threshold value - hysteresis)
- for longer than the time (short delay + retraction delay time).

| | |
|---|------------------|
| Move to position, if no automation with higher priority is being executed | |
| Movement position (in %) | <u>0</u> ... 100 |
| Slat position (in %) <i>(only for window shades with slats)</i> | <u>0</u> ... 100 |

Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 115).

Status output façade

Information on the various possibilities for the status output can be found in chapter *Status output*, page 108. In principal the status output is a singular function, but, in compact form, possible for singular and for all façades possible. The texts for the output in compact form are defined in the general settings for the façade (see chapter *Status output*, page 108).

Set which value in the status release object **for this façade** means active respectively in active.

| | |
|--------------------------|---|
| Evaluation of the façade | <u>1 = activated</u> 0 = <u>deactivated</u> |
| Status release object | 0 = activated <u>1 = deactivated</u> |
| value until first call | <u>0</u> • 1 |

5.26.3. Computer

Activate the multi-functional computer, with which the input data can be changed by calculation, querying a condition or converting the data point type. The menus for the further setting of the computer are then displayed.

| | |
|-------------|-----------------|
| Computer 1 | <u>No</u> • Yes |
| Computer... | <u>No</u> • Yes |
| Computer 8 | <u>No</u> • Yes |

5.26.4. Computers 1-8

Set, in which cases input values received are to be kept per object. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|---|
| Maintain the input values received via communication objects | <ul style="list-style-type: none"> • never • after power supply restoration • after power supply restoration and programming |
|--|---|

Select the function set the input mode and starting values for input 1 and input 2.

| | |
|--|--|
| Function (I = Input) | <ul style="list-style-type: none"> • Prerequisite: $E1 = E2$ • Prerequisite: $E1 > E2$ • Prerequisite: $E1 \geq E2$ • Prerequisite: $E1 < E2$ • Prerequisite: $E1 \leq E2$ • Prerequisite: $E1 - E2 \geq E3$ • Prerequisite: $E2 - E1 \geq E3$ • Prerequisite: $E1 - E2$ amount $\geq E3$ • Calculation: $E1 + E2$ • Calculation: $E1 - E2$ • Calculation: $E2 - E1$ • Calculation: $E1 - E2$ Amount • Calculation: Output 1 = $E1 \times X + Y$ Output 2 = $E2 \times X + Y$ • Transformation: General |
| Tolerance for comparison (in the case of prerequisite $E1 = E2$) | <u>0</u> ... 4,294,967,295 |
| Input type | <p>[Selection options depending on the function]</p> <ul style="list-style-type: none"> • <u>1 bit</u> • 1 byte (0...255) • 1 byte (0%...100%) • 1 byte (0°...360°) • 2 byte counter without math. symbol • 2 byte counter with math. symbol • 2 byte floating point • 4 byte counter without math. symbol • 4 byte counter with math. symbol • 4 byte floating point |
| Starting value E1 / E2 / E3 | [Input range depending on the type of input] |

Prerequisites

When querying the prerequisites set the output type and output values at different statuses:

| | |
|---|--|
| Output type | <ul style="list-style-type: none"> • <u>1 bit</u> • 1 byte (0...255) • 1 byte (0%...100%) • 1 byte (0°...360°) • 2 byte counter without math. symbol • 2 byte counter with math. symbol • 2 byte floating point • 4 byte counter without math. symbol • 4 byte counter with math. symbol • 4 byte floating point |
| Output value (if applicable output value A1 / A2) | |
| if the condition is met | <u>0</u> [Input range depending on the type of output] |
| if the condition is not met | <u>0</u> [Input range depending on the type of output] |
| if the monitoring time period is exceeded | <u>0</u> [Input range depending on the type of output] |
| if blocked | <u>0</u> [Input range depending on the type of output] |

Set the output send pattern.

| | |
|---|--|
| Output sends | <ul style="list-style-type: none"> • <u>on change</u> • on change and after reset • on change and periodically • when receiving an input object • when receiving an input object and periodically |
| Type of change (is only sent if "on change" is selected) | <ul style="list-style-type: none"> • <u>on each change</u> • on change to condition met • on change to condition not met |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |

Set the text to be displayed for conditions met / not met.

| | |
|----------------------------------|----------------------------|
| Text if the condition is met | [Free text max. 14 chars.] |
| Text if the condition is not met | [Free text max. 14 chars.] |

If applicable set the send delays.

| | |
|---|-------------------------------|
| Send delay in the event of change to the condition is met | <u>none</u> • 1 s • ... • 2 h |
| Send delay in the event of change to the condition is not met | <u>none</u> • 1 s • ... • 2 h |

Calculations and transformation

For calculations and transformations set the output values to the various conditions:

| Output value (if applicable A1 / A2) | |
|---|--|
| if the monitoring time period is exceeded | <u>0</u> [Input range depending on the type of output] |
| if blocked | <u>0</u> [Input range depending on the type of output] |

Set the output send pattern.

| | |
|---|--|
| Output sends | <ul style="list-style-type: none"> • <u>on change</u> • on change and after reset • on change and periodically • when receiving an input object • when receiving an input object and periodically |
| on change of <i>(only if calculations are transmitted for changes)</i> | 1 ... [Input range depending on the type of input] |
| Send cycle <i>(if sent periodically)</i> | 5 s ... 2 h; <u>10 s</u> |

For **Calculations of the form output 1 = E1 × X + Y | output 2 = E2 × X + Y** define the variables X and Y. The variables can have a positive or negative sign, 9 digits before and 9 digits after the decimal point.

| | |
|--|--------------------------|
| Formula for output A1: A1 = E1 × X + Y | |
| X | <u>1.00</u> [free input] |
| Y | <u>0.00</u> [free input] |
| Formula for output A2: A2 = E2 × X + Y | |
| X | <u>1.00</u> [free input] |
| Y | <u>0.00</u> [free input] |

Further settings for all formulas

If necessary, activate the input monitoring. Set which inputs are to be monitored, at which intervals the inputs are to be monitored and what value the "monitoring status" should have, if the monitoring period is exceeded without feedback.

| | |
|----------------------|--|
| Use input monitoring | <u>No</u> • Yes |
| Monitoring of | <ul style="list-style-type: none"> • <u>E1</u> • E2 • E3 • E1 and E2 • E1 and E3 • E2 and E3 • E1 and E2 and E3 [depending on the function] |

| | |
|---|-------------------------------|
| Monitoring period | 5 s • ... • 2 h; <u>1 min</u> |
| Value of the object "monitoring status" if period is exceeded | 0 • <u>1</u> |

If necessary, activate the computer block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

| | |
|---------------------------------|--|
| Use block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block At value 0: release</u> • <u>At value 0: block At value 1: release</u> |
| Value before first call | <u>0</u> • 1 |
| Output pattern | <ul style="list-style-type: none"> • <u>do not send anything</u> |
| On block | <ul style="list-style-type: none"> • send value |
| On release | <ul style="list-style-type: none"> • as send pattern [see above] • <u>send current value immediately</u> |

5.27. Weekly timer

In the weekly timer in the device 24 periods can be defined. These periods are, for example, used for the internal automatic function timed opening and timed closure.

The respective period objects can be configured as inputs or outputs, i.e. send to the bus (timer internal, use internal and for other bus members) or be switched from there (timer function via an external device). If several devices are used in the system, the timer settings may be done on one device that sends the period objects as output. The other devices take over the timer-command (input), whereby a better synchronisation is achieved.

Activate the required periods for the weekly timer. The menus for the further setting of the computer are then loaded.

| | |
|----------------|-----------------|
| Use period 1 | <u>No</u> • Yes |
| Use ... period | <u>No</u> • Yes |
| Use period 24 | <u>No</u> • Yes |

5.27.1. Weekly timer period 1-24

Set whether the period can be set (period object is the output and is sent to the bus) or if the period is received externally via the bus (period object is the input).

| | |
|--------|--|
| Period | <ul style="list-style-type: none"> • <u>can be set</u> <u>(period object is output)</u> • can be switched (time period object is output) |
|--------|--|

Period can be set (time period object is output)

Set whether the switching times are set per object and in which cases the switching times received are to be retained. Please note that the setting "After power restoration

and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|--|
| Use objects for switching times | <u>No</u> • Yes |
| The threshold values and delays received by the communication object | |
| Switching data should | <ul style="list-style-type: none"> • <u>not</u> be retained • be retained after power restoration • be retained after power restoration and programming |

Set the switching on and off times and the days of the week for this period. If, for example, 15:35 is set as the switch-off time, the output switches off on the change from 15:35 to 15:36.

| | |
|---------------------------|-----------------|
| Switch on time (hours) | <u>0</u> ... 23 |
| Switch on time (minutes) | <u>0</u> ... 59 |
| Switch-off time (hours) | <u>0</u> ... 23 |
| Switch-off time (minutes) | <u>0</u> ... 59 |
| Period switches to | |
| Monday ... Sunday | <u>No</u> • Yes |

Set the send pattern for the week clock switch output and the value of the output.

| | |
|--|---|
| Switching output sends | <ul style="list-style-type: none"> • <u>never</u> • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10</u> s |
| 8-bit output value if Period active | <u>0</u> ... 255 |
| 8-bit output value if Period not active | <u>0</u> ... 255 |

Period that can be switched externally (time period is the input)

The time switches are taken over from an external timer switch. Set at which value the period is to be active and define the object value before the first communication.

| | |
|---|---|
| Period is active | <ul style="list-style-type: none"> • <u>at object value = 1</u> • at object value = 0 |
| Object value prior to initial communication | <u>0</u> • 1 |

5.28. Calendar timer

In the calendar timer in the device, four periods with two switching sequences can be defined. These periods are, for example, used for the internal automatic function timed opening and timed closure (see chapter *Time open*, page 119 and *Time and night closure*, page 120).

Activate the required periods for the calendar timer. The menus for the further setting of the computer are then loaded.

| | |
|----------------|-----------------|
| Use period 1 | <u>No</u> • Yes |
| Use ... period | <u>No</u> • Yes |
| Use period 4 | <u>No</u> • Yes |

5.28.1. Calendar clock Period 1-4

Set whether the switching date and the switching time are set per object and in which cases the switching dates and times received are to be retained. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

| | |
|--|---|
| Use objects for switching times | <u>No</u> • Yes |
| Maintain the switching data and times received via communication objects | <ul style="list-style-type: none"> • never • after power restoration • after power restoration and programming |
| . | |

Define the period

| | |
|----------------------|--|
| From: | |
| Month | <u>January</u> ... December |
| Day | <u>1</u> ... 29 / 1 ... 30 / 1 ... 31 (according to month) |
| Up to and including: | |
| Month | <u>January</u> ... December |
| Day | <u>1</u> ... 29 / 1 ... 30 / 1 ... 31 (according to month) |

Sequence 1 / 2

Define the switching times.

| | |
|---------------------------|-----------------|
| Switch on time (hours) | <u>0</u> ... 23 |
| Switch on time (minutes) | <u>0</u> ... 59 |
| Switch-off time (hours) | <u>0</u> ... 23 |
| Switch-off time (minutes) | <u>0</u> ... 59 |

| | |
|--------------------------------------|---|
| Switching output sends | <ul style="list-style-type: none"> • <u>never</u> • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |

Set the send pattern for the switch sequence and the value of the 8-bit output.

| | |
|--|---|
| Switching output sends | <ul style="list-style-type: none"> • <u>never</u> • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically |
| Send cycle (if sent periodically) | 5 s ... 2 h; <u>10 s</u> |
| 8-bit output value if Period active | <u>0</u> ... 255 |
| 8-bit output value if Period not active | <u>0</u> ... 255 |

5.29. Logic

The device has 16 logic inputs, eight AND and eight OR logic gates.

Activate the logic inputs and assign object values up to first call.

| | |
|---------------------------------------|-----------------|
| Use logic inputs | Yes • <u>No</u> |
| Object value prior to first call for: | |
| - Logic input 1 | <u>0</u> • 1 |
| - Logic input ... | <u>0</u> • 1 |
| - Logic input 16 | <u>0</u> • 1 |

Activate the required logic outputs.

AND logic

| | |
|---------------|----------------------------|
| AND logic 1 | <u>not active</u> • active |
| AND logic ... | <u>not active</u> • active |
| AND logic 8 | <u>not active</u> • active |

OR logic

| | |
|--------------|----------------------------|
| OR logic 1 | <u>not active</u> • active |
| OR logic ... | <u>not active</u> • active |
| OR logic 8 | <u>not active</u> • active |

5.29.1. AND logic 1-8 and OR logic outputs 1-8

The same setting options are available for AND and OR logic.

Each logic output may transmit one 1 bit or two 8 bit objects. Determine what the output should send if logic = 1 and = 0.

| | |
|-------------------------|--|
| 1. / 2. / 3. / 4. Input | <ul style="list-style-type: none"> • <u>do not use</u> - Logic inputs 1...16 - Logic inputs 1...16 inverted • all switching events that the device provides (see <i>Connection inputs of the AND/OR logic</i>) |
| Output type | <ul style="list-style-type: none"> • a 1-Bit-object • two 8-bit objects |

If the **output type is a 1-bit object**, set the output values for the various conditions.

| | |
|---|--------------|
| Output value if logic = 1 | <u>1</u> • 0 |
| Output value if logic = 0 | 1 • <u>0</u> |
| Output value If block is active | 1 • <u>0</u> |
| Output value if monitoring period is exceeded | 1 • <u>0</u> |

If the **output type is two 8-bit objects**, set the type of object and the output values for the various conditions.

| | |
|------------------------------------|--|
| Object type | <ul style="list-style-type: none"> • Value (0...255) • Percent (0...100%) • Angle (0...360°) • Scene call-up (0...127) |
| Output value object A if logic = 1 | 0 ... 255 / 100% / 360° / 127; <u>1</u> |
| Output value object B if logic = 1 | 0 ... 255 / 100% / 360° / 127; <u>1</u> |
| Output value object A if logic = 0 | 0 ... 255 / 100% / 360° / 127; <u>0</u> |
| Output value object B if logic = 0 | 0 ... 255 / 100% / 360° / 127; <u>0</u> |

| | |
|--|---|
| Output value object A if block is active | 0 ... 255 / 100% / 360° / 127; <u>0</u> |
| Output value object B if block is active | 0 ... 255 / 100% / 360° / 127; <u>0</u> |
| Output value object A if monitoring period is exceeded | 0 ... 255 / 100% / 360° / 127; <u>0</u> |
| Output value object B if monitoring period is exceeded | 0 ... 255 / 100% / 360° / 127; <u>0</u> |

Set the output send pattern.

| | |
|--------------------------------------|---|
| Send pattern | <ul style="list-style-type: none"> • <u>on change of logic</u> • on change of logic to 1 • on change of logic to 0 • on change of logic and periodically • on change of logic to 1 and periodically • on change of logic to 0 and periodically • on change of logic+object receipt • on change of logic+object receipt and periodically |
| Send cycle (if sent periodically) | 5 s • <u>10 s</u> • ... • 2 h |

Block

If necessary, activate the block for the logic output and set what a 1 or 0 at the block input means and what happens in the event of a block.

| | |
|--|---|
| Use block | <u>No</u> • Yes |
| Analysis of the blocking object | <ul style="list-style-type: none"> • <u>At value 1: block At value 0: release</u> • At value 0: block At value 1: release |
| Blocking object value before first call | <u>0</u> • 1 |
| Output pattern On block | <ul style="list-style-type: none"> • <u>Do not send message</u> • Transmit block value [see above, Output value if blocking active] |
| On release (with 2 seconds release delay) | [send value for current logic status] |

Monitoring

If necessary, activate the input monitoring. Set which inputs are to be monitored, at which intervals the inputs are to be monitored and what value the "monitoring status" should have, if the monitoring period is exceeded without a feedback being given.

| | |
|----------------------|---|
| Use input monitoring | <u>No</u> • Yes |
| Input monitoring | <ul style="list-style-type: none"> • 1 • 2 • 3 • 4 • 1 + 2 • 1 + 3 • 1 + 4 • 2 + 3 • 2 + 4 • 3 + 4 • 1 + 2 + 3 • 1 + 2 + 4 • 1 + 3 + 4 • 2 + 3 + 4 • <u>1 + 2 + 3 + 4</u> |

| | |
|---|---|
| Monitoring period | 5 s • ... • 2 h; <u>1 min</u> |
| Output behaviour on exceeding the monitoring time | <ul style="list-style-type: none"> • <u>Do not send message</u> • Send value exceeding [= value of the parameter "monitoring period"] |

5.29.2.AND logic connection inputs

do not use

Logic input 1

Logic input 1 inverted

Logic input 2

Logic input 2 inverted

Logic input 3

Logic input 3 inverted

Logic input 4

Logic input 4 inverted

Logic input 5

Logic input 5 inverted

Logic input 6

Logic input 6 inverted

Logic input 7

Logic input 7 inverted

Logic input 8

Logic input 8 inverted

Logic input 9

Logic input 9 inverted

Logic input 10

Logic input 10 inverted

Logic input 11

Logic input 11 inverted

Logic input 12

Logic input 12 inverted

Logic input 13

Logic input 13 inverted

Logic input 14

Logic input 14 inverted

Logic input 15

Logic input 15 inverted

Logic input 16

Logic input 16 inverted

Temperature Sensor Malfunction ON

Temperature sensor malfunction OFF

Pressure sensor malfunction ON

Pressure sensor malfunction OFF

GPS Malfunction ON

GPS malfunction OFF

Wind Sensor malfunction ON
Wind sensor malfunction OFF
Switching output rain
Switching output rain inverted
Switching output rain 2
Switching output rain 2 inverted
Switching output night
Switching output inverted
Frost alarm active
Frost alarm inactive
Switching output 1 Temperature
Switching output 1 Temperature inverted
Switching output 2 Temperature
Switching output 2 Temperature inverted
Switching output 3 Temperature
Switching output 3 Temperature inverted
Switching output 4 Temperature
Switching output 4 Temperature inverted
Brightness sensor switching output 1
Brightness sensor switching output 1 inverted
Brightness sensor switching output 2
Brightness sensor switching output 2 inverted
Brightness sensor switching output 3
Brightness sensor switching output 3 inverted
Brightness sensor switching output 4
Brightness sensor switching output 4 inverted
Switching output 1 Twilight
Switching output 1 Twilight inverted
Switching output 2 Twilight
Switching output 2 Twilight inverted
Switching output 3 Twilight
Switching output 3 Twilight inverted
Switching output 4 Twilight
Switching output 4 Twilight inverted
Switching output 1 Pressure
Switching output 1 Pressure inverted
Switching output 2 Pressure
Switching output 2 Pressure inverted
Switching output 3 Pressure
Switching output 3 Pressure inverted
Switching output 4 Pressure
Switching output 4 Pressure inverted
Wind switching output 1
Wind switching output 1 inverted
Wind switching output 2
Wind switching output 2 inverted
Wind switching output 3
Wind switching output 3 inverted

Wind switching output 4
Wind switching output 4 inverted
Weekly timer period 1 active
Weekly timer period 1 inactive
Weekly timer period 2 active
Weekly timer period 2 inactive
Weekly timer period 3 active
Weekly timer period 3 inactive
Weekly timer period 4 active
Weekly timer period 4 inactive
Weekly timer period 5 active
Weekly timer period 5 inactive
Weekly timer period 6 active
Weekly timer period 6 inactive
Weekly timer period 7 active
Weekly timer period 7 inactive
Weekly timer period 8 active
Weekly timer period 8 inactive
Weekly timer period 9 active
Weekly timer period 9 inactive
Weekly timer period 10 active
Weekly timer period 10 inactive
Weekly timer period 11 active
Weekly timer period 11 inactive
Weekly timer period 12 active
Weekly timer period 12 inactive
Weekly timer period 13 active
Weekly timer period 13 inactive
Weekly timer period 14 active
Weekly timer period 14 inactive
Weekly timer period 15 active
Weekly timer period 15 inactive
Weekly timer period 16 active
Weekly timer period 16 inactive
Weekly timer period 17 active
Weekly timer period 17 inactive
Weekly timer period 18 active
Weekly timer period 18 inactive
Weekly timer period 19 active
Weekly timer period 19 inactive
Weekly timer period 20 active
Weekly timer period 20 inactive
Weekly timer period 21 active
Weekly timer period 21 inactive
Weekly timer period 22 active
Weekly timer period 22 inactive
Weekly timer period 23 active
Weekly timer period 23 inactive

Weekly timer period 24 active
Weekly timer period 24 inactive
Calendar timer period 1 sequence 1 active
Calendar timer period 1 sequence 1 inactive
Calendar timer period 1 sequence 2 active
Calendar timer period 1 sequence 2 inactive
Calendar timer period 2 sequence 1 active
Calendar timer period 2 sequence 1 inactive
Calendar timer period 2 sequence 2 active
Calendar timer period 2 sequence 2 inactive
Calendar timer period 3 sequence 1 active
Calendar timer period 3 sequence 1 inactive
Calendar timer period 3 sequence 2 active
Calendar timer period 3 sequence 2 inactive
Calendar timer period 4 sequence 1 active
Calendar timer period 4 sequence 1 inactive
Calendar timer period 4 sequence 2 active
Calendar timer period 4 sequence 2 inactive

5.29.3. Connection inputs of the OR logic

The OR logic connection inputs correspond to those of the AND logic. In addition, the following inputs are available for the OR logic:

AND logic output 1
AND logic output 1 inverted
AND logic output 2
AND logic output 2 inverted
AND logic output 3
AND logic output 3 inverted
AND logic output 4
AND logic output 4 inverted
AND logic output 5
AND logic output 5 inverted
AND logic output 6
AND logic output 6 inverted
AND logic output 7
AND logic output 7 inverted
AND logic output 8
AND logic output 8 inverted

Questions about the product?

You can reach the technical service of Elsner Elektronik under
Tel. +49 (0) 70 33 / 30 945-250 or
service@elsner-elektronik.de

We need the following information to process your service request:

- Type of appliance (model name or item number)
- Description of the problem
- Serial number or software version
- Source of supply (dealer/installer who bought the device from Elsner Elektronik)

For questions about KNX functions:

- Version of the device application
- ETS version used for the project

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