

Product Page

The KNX-Sensor SK10-TC-ETF2 is used for measuring and controlling indoor air temperature

- Air temperature (sensor on housing) also weighted with external temperature
- Control functions for heating and cooling applications (can be combined)
- Setpoint temperatures for Comfort, Standby, Economy and Protection, selectable via KNX HVAC objects
- Setpoint change via objects
- Storage of minimum- and maximum-temperature
- Heat- and frost-alarm
- Limits for temperature
- Fan control by external inputs
- Adaptation for setpoint and maximum temperatures
- Controller output 0...100% or programmable PWM for thermal actuators
- Valve rinse function
- Second temperature controller as auxiliary controller

Four logic blocks for the logical link between internal and external signals.

- 10 associated logic inputs / outputs
- Heat- and cooling-request as additionally available signals
- Functions "AND, OR, NOT, XOR" for binary logic
- Functions "+ - *" for 8-bit values
- Function "=" for conditional forwarding of events

Article No.
30511020 - 30511026



SK10-TC-ETF2
Screw-In / Immersion Sleeve
Sensor length: 50 .. 400 mm
V4A

<p>Sensor: PT1000 Screw-In / Immersion Sleeve V4A, Ø 9mm max. pressure 40 bar</p> <p>Measurement Range: -30 .. +150°C Resolution: 0.02°C Accuracy: Class B, $\pm(0.3^{\circ}\text{C}+0.005^{\circ}\text{T})$</p> <p>Operating Temperature: -25 .. +80°C Storage Temperature: -25 .. +80°C</p> <p>Protection Class: IP54/65</p>	<p>Technical drawing showing dimensions for the SK10-TC-ETF2 sensor. Key dimensions include: 37.8, 14.8, 66.3, 64, 72, 107, 14, 6, NL, M16x1.5, M6, SW27, G1/2, 10, 14, EL, EL + 10, 8, and 15. A note indicates EL = Einbaulänge (installation length).</p>
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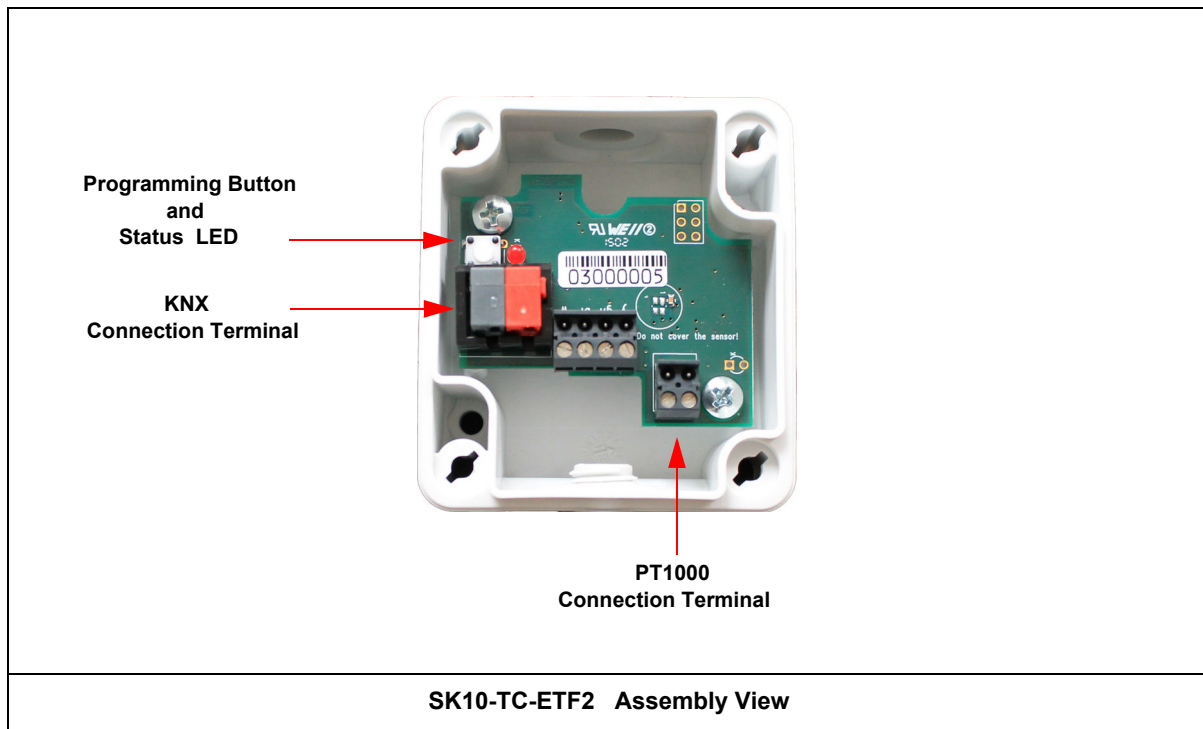
Startup

The KNX Sensor is set up using the ETS (Version 4 or higher) and the applicable application program.

The sensor is delivered unprogrammed.

All functions are programmed and parameterized with ETS.

Please read the ETS instructions.



Assembly

The **SK10-TC-ETF2** sensor are for outdoor and (moist) indoor areas.

The sensor is located in an IP54/65 plastic housing.

When connecting the PT1000 sensor does not have to be polarity independent.

In Case of Bus Voltage Recurrence

All changes made using the help key for the KNX bus are saved if the device has been correctly parameterized.

The measuring and control values start with their current values (integral component=0 by PI-Controller).

By using the weighted mixture temperature, the external temperature scaling is set to 0% until an external temperature value is received.

The ETS parameter settings are retained.

Discharge Program and Reset Sensor

In order to delete the programming (projecting) and to reset the module back to delivery status, it must be switched off (disconnect the KNX bus).

Press and hold the programming button while reconnecting the KNX bus and wait until the programming LED lights up (approx. 5-10 seconds).

Now you can release the programming button.

The module is ready for renewed projecting.

If you release the programming button too early, repeat the aforementioned procedure.

Technical Data

Technical Data - SK10-TC-ETF2

Measurement	Temperature														
Control	Integrated														
Temperature Range	-30 .. +150°C														
Resolution	0.02°C														
Accuracy	Class B, $\pm(0.3^{\circ}\text{C}+0.005^{\circ}\text{T})$														
Operating Voltage	KNX Bus Voltage 21 .. 32VDC														
Power Consumption	approx. 240mW (at 24VDC)														
Environment Temperature KNX-Module	Operating: -25 .. +80°C Storage: -25 .. +80°C														
Environment Humidity KNX-Module	0 .. 100% r.H Non Condensing														
Bus Coupler	Integrated														
Auxiliary Supply	Not Required														
Startup with the ETS Version 4 or higher	HLK305														
Circuit Points	KNX 2-Pole Clamps (red / black)														
Protection Class	IP54/65														
Housing KNX-Module	Plastic														
Dimensions Housing KNX-Module	(72 x 64 x 40) mm														
Article Number	<table border="0"> <tr> <td>30511020</td> <td>50mm</td> </tr> <tr> <td>30511021</td> <td>100mm</td> </tr> <tr> <td>30511022</td> <td>150mm</td> </tr> <tr> <td>30511023</td> <td>200mm</td> </tr> <tr> <td>30511024</td> <td>250mm</td> </tr> <tr> <td>30511025</td> <td>300mm</td> </tr> <tr> <td>30511026</td> <td>400mm</td> </tr> </table>	30511020	50mm	30511021	100mm	30511022	150mm	30511023	200mm	30511024	250mm	30511025	300mm	30511026	400mm
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Imprint

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