

CHARACTERISTICS

- Printout glass with touch surface
- Completely customized image for printout glass, through a web application
- 1.8" back-lighted display 128 x 64 pixels
- 8 main touch areas and a central touch control.
- 2 analog/digital inputs
- No power supply different from the bus needed.
- Thermostat.
- Temperature sensor.
- State LED indicators with custom luminosity
- KNX BCU integrated.
- Magnetic fit with security mechanism to avoid accidental extraction.
- Metallic stand included.
- Complete data saving in case of power failure.
- Conformity with the CE directives (CE-mark on the back side).

1. Temperature sensor	2. KNX bus	3. Analog/digital inputs	4. Programming button	5. Programming LED
6. Magnet	7. Display	8. Status LED	9. Main touch area	10. Central touch control

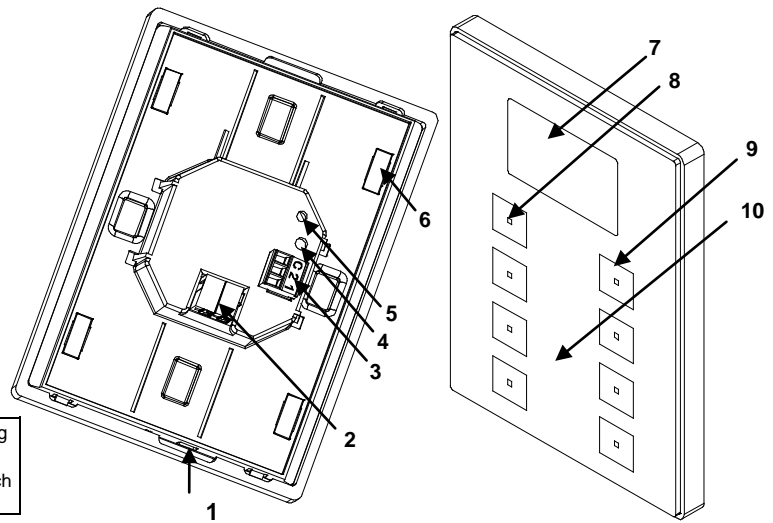


Figure 1. TMD-Display One

Programming button: used to set the device in "Programming mode". If kept pressed while KNX bus recovery, "safe mode" is set.
Programming LED: LED ON indicates programming mode. LED blinks every 0.5 seconds when device is in "safe mode".

GENERAL SPECIFICATIONS

CONCEPT		DESCRIPTION		
Device type		Electric operation control device		
KNX supply	Voltage (typical)	29VDC		
	Voltage range	21...31VDC		
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	13	377
24VDC ⁽¹⁾	20	480		
Connection type		Typical TP1 bus connector; 0.80mm ² section		
Operating temperature		from 5°C to +40°C		
Storage temperature		from -20°C to +60°C		
Ambient humidity (relative)		from 3 to 95% RH (no condensation)		
Storage humidity (relative)		from 3 to 95% RH (no condensation)		
Complementary characteristics		Class B		
Safety class		III		
Operation type		Continuous operation		
Device action type		Type 1		
Electrical stress period		Long		
No. of automatic cycles per auto action		100.000		
Degree of protection		IP20, clean environment		
Assembly		Vertical position. See example in "installation figure"		
Minimum clearances		Keep away from heat and cold air flows to get better temperature sensor measures		
Response to bus voltage failure		Complete data saving		
Response to bus failure recovery		Before failure data recovery		
Function indicator		Several on display as programmed		
Weight		130g (Aluminium frame version) / 122g (Polycarbonate frame version)		
PCB CTI index		175V		
Housing material		PC+ABS FR V0 halogen free		

⁽¹⁾ Maximum consumption in the worst case scenario (KNX Fan-In model)

INPUT CONNECTIONS

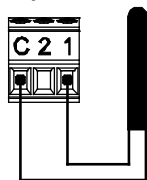
CONCEPT		DESCRIPTION
Number of inputs per common		2
Output voltage of the inputs		+3.3VDC for the common (do not connect external voltage into the inputs in any case)
Output current of the inputs		1mA at 3.3V DC in every input
Impedance of the inputs		Approx. 3.3kΩ
Switching type		Dry voltage contacts between input and common
Connection method		Cable screw terminal
Max. cable length		30m
NTC sensor cable length		1.5m (extendable up to 30m)
NTC accuracy (@ 25°C)		0.5°C
Temperature measure precision		0.1°C
Cable cross-section		From 0.13mm ² to 1.3mm ² (26-16AWG)
Response time OFF → ON		Maximum 10ms
Response time ON → OFF		Maximum 10ms
Operation indicator		None

INTERNAL TEMPERATURE SENSOR SPECIFICATIONS	
CONCEPT	DESCRIPTION
Measuring range	-10°C to 50°C
Resolution	0.1°C
Sensor precision @25°C	1%

INPUT CONNECTIONS

Any combination of the next **accessories** is allowed in the inputs:

Temperature Probe



Zennio
Temperature
Probe

⁽²⁾ Application program version 2.0 needed.

Motion Sensor ⁽²⁾

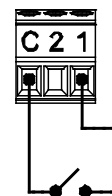


Up to two motion sensors
can be plugged into the
same ZDI-TMDD input
(parallel wiring)

Motion sensor screw
terminal.

Motion sensor reference:
ZN1IO-DETEC-X

Switch/Sensor/ Push Button



INSTALLATION AND CONNECTION DIAGRAM

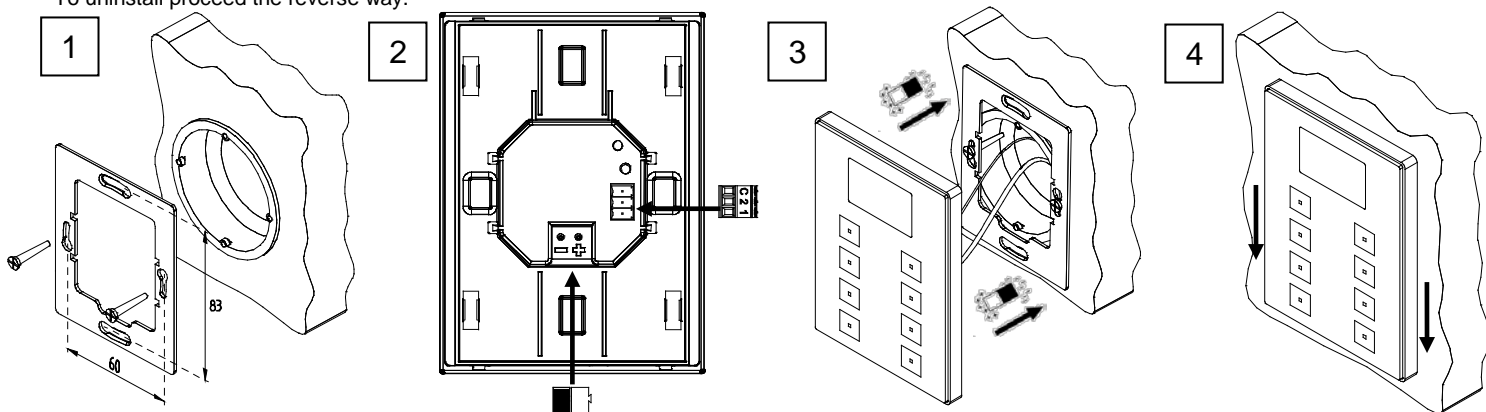
Step 1: Place the metallic piece into a squared or rounded standard mounting box with the own screws from the box.

Step 2: Connect the KNX bus at the rear of the device, as well as the inputs terminal.

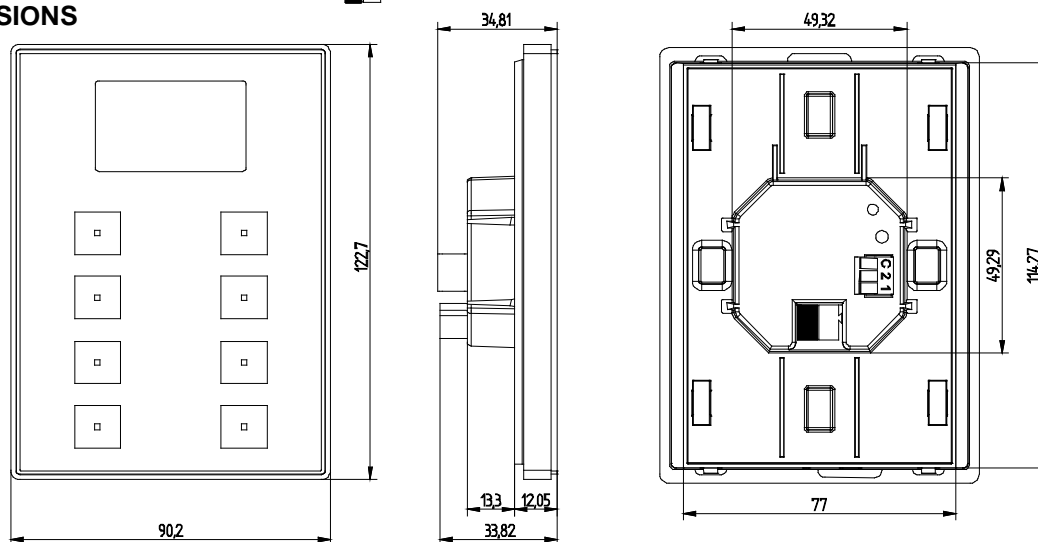
Step 3: Once inputs and bus KNX are connected, fit TMD-Display in the metal platform. The device is fixed thanks to the magnets.

Step 4: Slid TMD-Display downwards to fix it with the security anchorage system. Check, from the side, that nothing unless TMD-Display outline can be seen.

To uninstall proceed the reverse way.



MAIN DIMENSIONS



GENERAL CARE

- Do not use aerosol sprays, solvents, or abrasives that might damage the device.
- Clean the product with a clean, soft, damp cloth.

SAFETY INSTRUCTIONS

- Installation should only be performed by qualified electricians following applicable regulations on preventing accidents, as required by law.
- Do not connect the main voltage (230VAC) or any other external voltages to any point of the KNX bus.
- Connecting an external voltage might put the KNX system into risk.
- Ensure that there is enough insulation between the 230VAC voltage cables and the KNX bus.
- Do not expose this device to direct sunlight, rain or high humidity.
- The WEEE logo means that this device contains electronic parts and it must be discarded properly following the instructions of <http://zennio.com/wEEE-regulation>.