

FEATURES

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

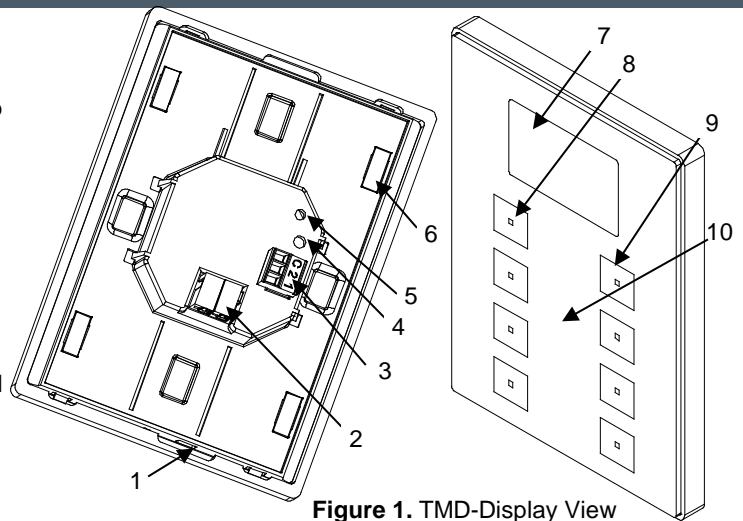


Figure 1. TMD-Display View

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 area

Programming button: short button press to set programming mode. If this button is held while plugging the device into the KNX bus, it enters in safe mode.

Programming LED: programming mode indicator (red). When the device enters in safe mode, it blinks (red) every half second. During start-up (reset or after KNX bus failure) and if the device is not in safe mode, it emits a red flash.

GENERAL SPECIFICATIONS

CONCEPT		DESCRIPTION		
Type of device		Electric operation control device		
KNX supply	Voltage (typical)	29VDC SELV		
	Voltage range	21...31VDC		
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	10	290
24VDC ⁽¹⁾	20	480		
Connection type		Typical TP1 bus connector, 0.80mm ² section		
External power supply		Not required		
Operation temperature		from 5°C to +40°C		
Storage temperature		from -20°C to +60°C		
Ambient humidity		5 to 95% RH (no condensation)		
Storage humidity		5 to 95% RH (no condensation)		
Complementary characteristics		Class B		
Protection class		III		
Operation type		Continuous operation		
Device action type		Type 1		
Electrical stress period		Long		
Degree of protection		IP20, clean environment		
Installation		Vertical position. See section "installation and connection diagram"		
Response on KNX bus failure		Data saving according to parameterization.		
Response on KNX bus restart		Data recovery according to parameterization.		
Operation indication		Several on display as programmed		
Weight		130g (Aluminium frame model) / 122g (Polycarbonate frame model)		
PCB CTI index		175V		
Enclosure		PC+ABS FR V0 halogen free		

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

INPUTS SPECIFICATIONS AND CONNECTIONS

CONCEPT		DESCRIPTION
Number of inputs per common		2
Operation voltage		+3.3VDC in the common
Operation current		1.0mA @ 3.3VDC (per input)
Maximum impedance		Approx. 3.3kΩ
Switching type		Dry voltage contacts between input and common
Connection method		Screw terminal block pluggable
Maximum cable length		30m.
NTC probe cable length		1.5m (up to 30m)
NTC accuracy (@ 25°C)		±0.5°C
Temperature resolution		0.1°C
Cable cross-section		0.5mm ² to 1.5mm ² (28-16AWG)
Response time		Maximum 10ms.
Operation indicator		None

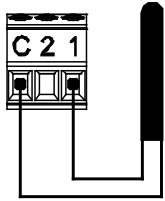
INTERNAL TEMPERATURE SENSOR SPECIFICATIONS

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

Motion Sensor

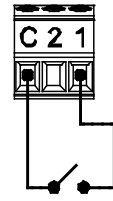


Up to two motion sensors can be plugged into the same device input (parallel wiring)

Motion sensor screw terminal.

Motion sensor reference:
ZN110-DETEC-X

Switch/Sensor/Push Button



INSTALLATION AND CONNECTION DIAGRAM

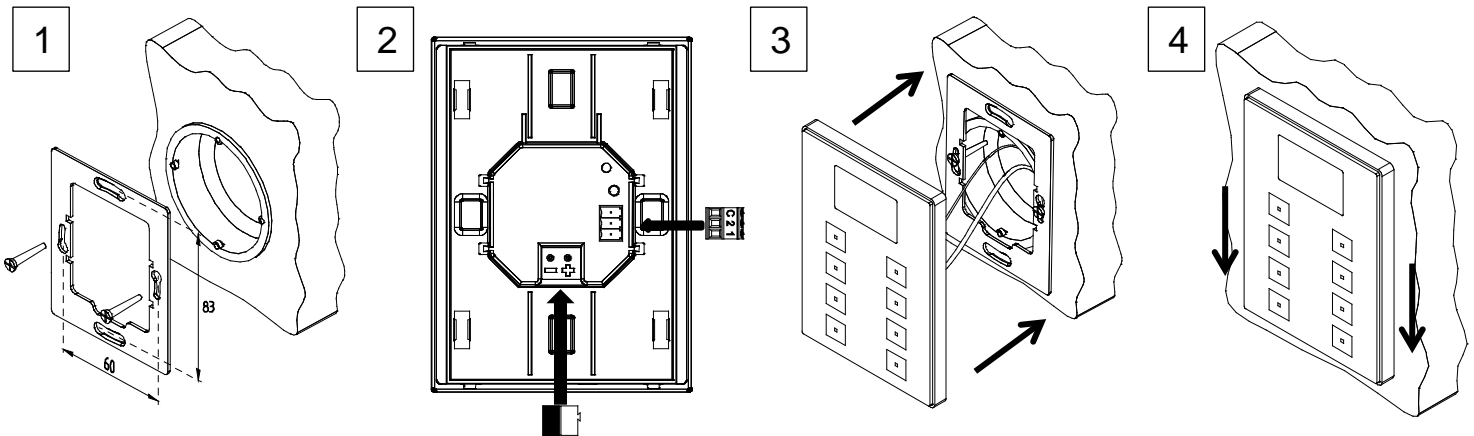
Step 1: Place the metallic piece into a squared or rounded standard mounting box with the own screws from the box.

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

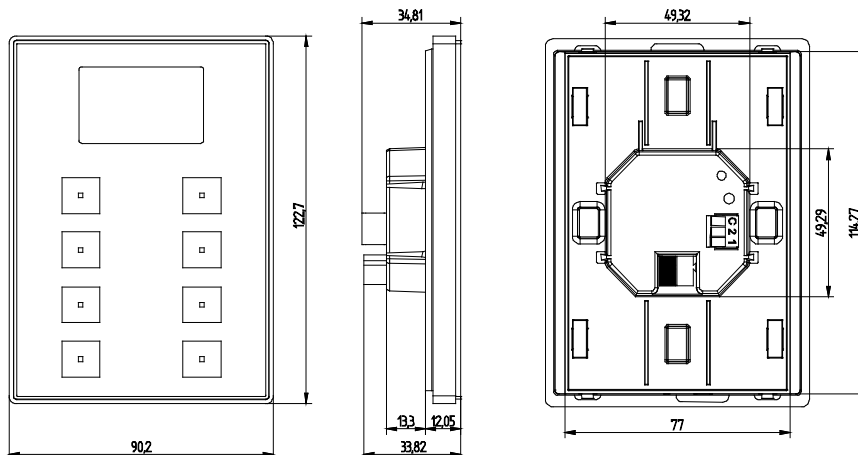
Step 3: Once inputs and bus KNX are connected, fit the device in the metal platform. The device is fixed thanks to the magnets.

Step 4: Slid the device downwards to fix it with the security anchorage system. Check, from the side, that nothing unless the device 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 professionals according to the laws and regulations applicable in each country.
- Do not connect the mains voltage nor any other external voltage to any point of the KNX bus; it would represent a risk for the entire KNX system. The facility must have enough insulation between the mains (or auxiliary) voltage and the KNX bus or the wires of other accessories, in case of being installed.
- Keep the device away from water and do not cover it with clothes, paper or any other material while use.
- 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>.

