

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.
- CE directives compliant.

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

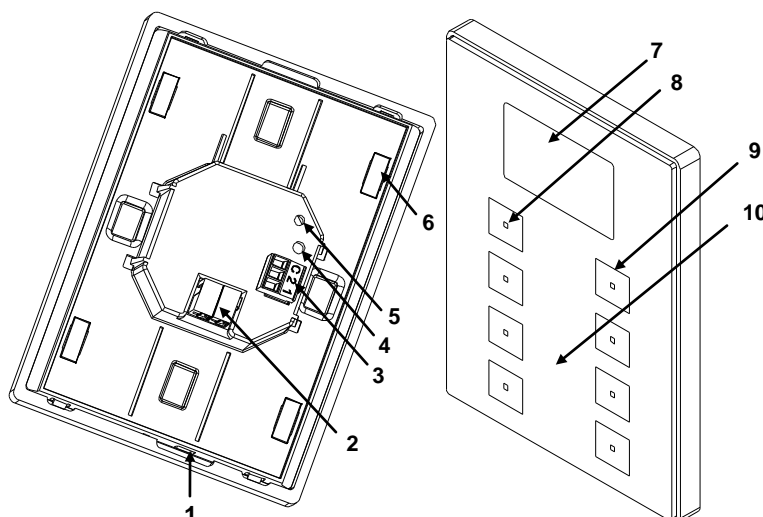


Figure 1. TMD-Display

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".

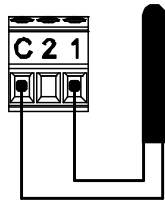
GENERAL SPECIFICATIONS				
CONCEPT		DESCRIPTION		
Device type		Electric operation control device		
KNX supply	Voltage (typical)		29V DC	
	Voltage range		21...31V DC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	13	377
		24VDC	17	408
Connection type		Typical bus connector TP1, 0.50mm ² section		
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 solicitations period		Long		
No. of automatic cycles per auto action		100.000		
Type 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		170 gr. without metallic stand / 210 gr. with metallic stand		
PCB CTI index		175 V		
Enclosure material		PC+ABS FR V0 halogen free		

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 0.15 mm ² to 1 mm ²
Response time OFF → ON	Maximum 10ms.
Response time ON → OFF	Maximum 10ms.
Operation indicator	None

INPUT CONNECTIONS

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

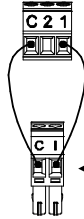
Temperature Probe



Temperature probe references:

ZN1AC-NTC68E
ZN1AC-NTC68F
ZN1AC-NTC68S

Motion Sensor⁽¹⁾

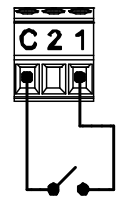


Up to two motion sensors can be plugged into the same ZDI-TMDD input (parallel wiring)

Motion sensor screw terminal connector.

Motion sensor reference:
ZN1IO-DETEC-X

Switch/Sensor/ Push Button



(1) Application program version 2.0 needed.

INSTALLATION AND CONNECTION DIAGRAM

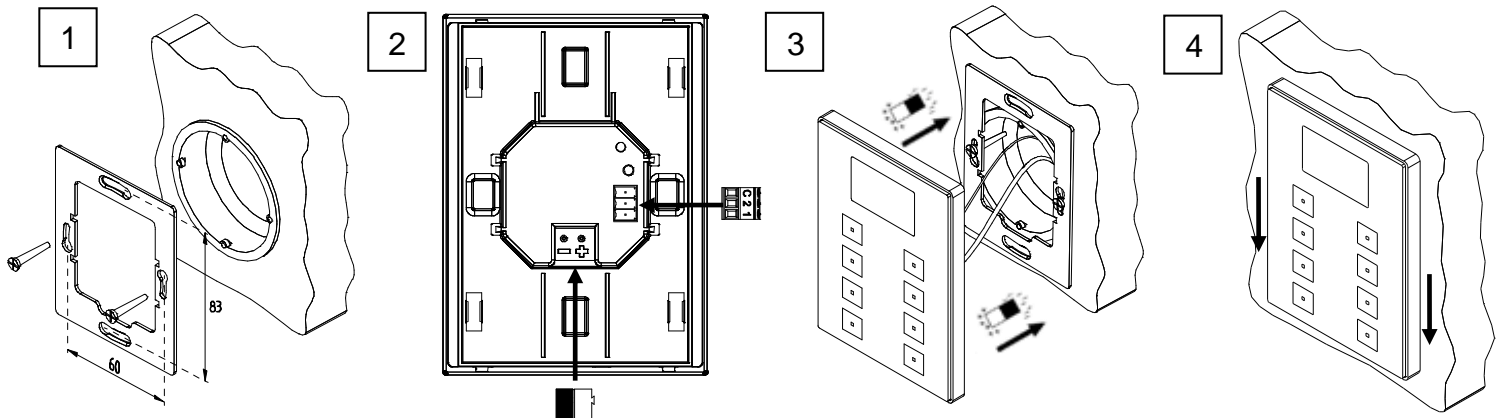
Step 1: Place the metallic piece into a squared or rounded standard mounting box with the own screws from the box.

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

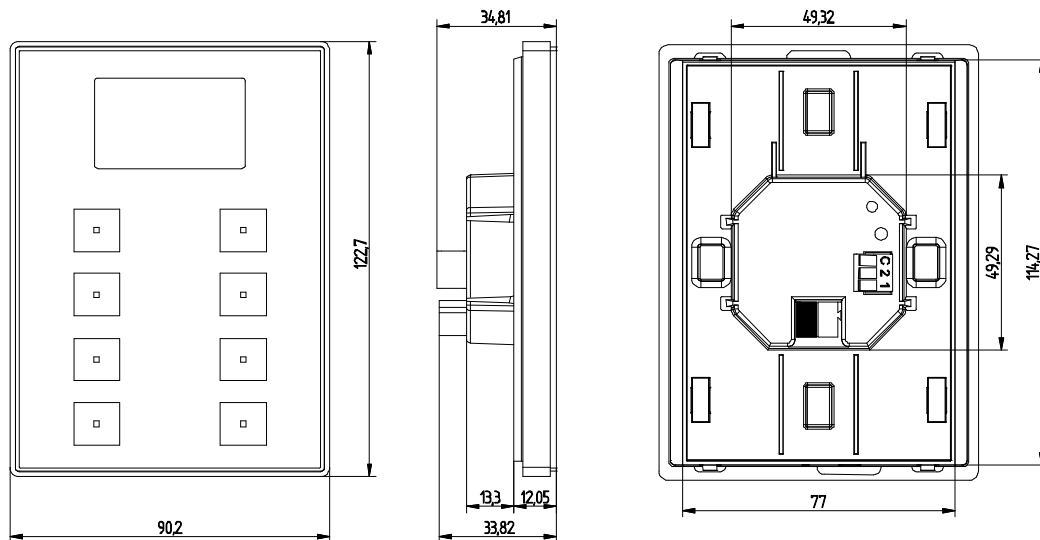
Paso 3: Once inputs and bus KNX are connected, fit TMD-Display in the metal platform. The device is fixed thanks to the magnets.

Paso 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



- Do not connect the main voltage (230V) 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 AC voltage cables and the KNX bus.
- Do not expose this device to direct sunlight, rain or high humidity.