

### 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.
- 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.

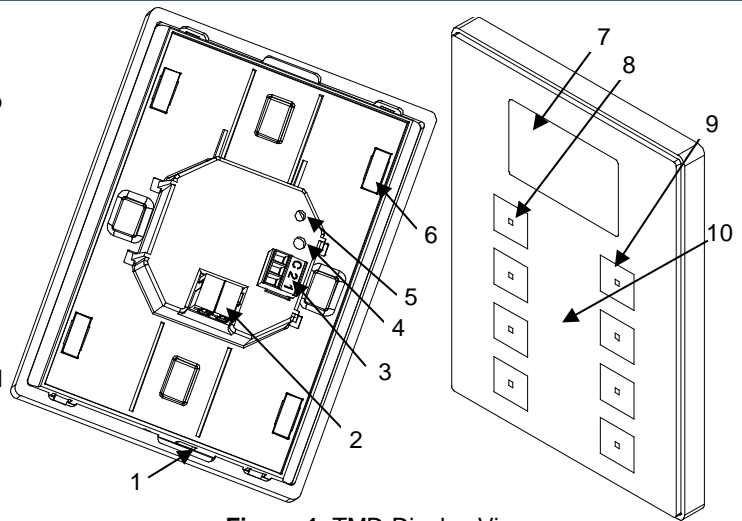


Figure 1. TMD-Display View

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 goes into safe mode.

**Programming LED:** programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. During start up (after reset or power failure) and if the device is not in safe mode, LEDs indicator blinks red once.

### GENERAL SYSTEM 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 <sup>(1)</sup>	20		480
Bus connection		Typical bus connector TP1, 0.80mm <sup>2</sup> section			
Ambient 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 (relative)			5 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		
Type of protection			IP20, clean environment		
Assembly			Vertical position. See section “installation and connection diagram”		
KNX bus failure response			Data saving according to parameterization.		
Response when restarting KNX bus			Data recovering change 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		

<sup>(1)</sup> Maximum consumption in the worst case scenario (KNX Fan-In model)

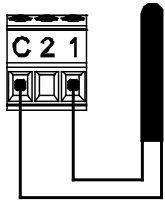
### INPUT CONNECTIONS

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	1.0mA @ 3.3VDC (each 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	0.5mm <sup>2</sup> to 1.5mm <sup>2</sup> (28-16AWG)
Response time	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  
ZAC-SQAT-W/S/A

### Motion Sensor

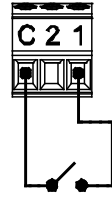


Up to two motion sensors can be plugged into the same device input (parallel wiring)

Motion sensor screw terminal connector.

**Motion sensor reference:**  
ZN1IO-DETEC-X

### Switch/Sensor/Push Button



## INSTALLATION AND CONNECTION DIAGRAM

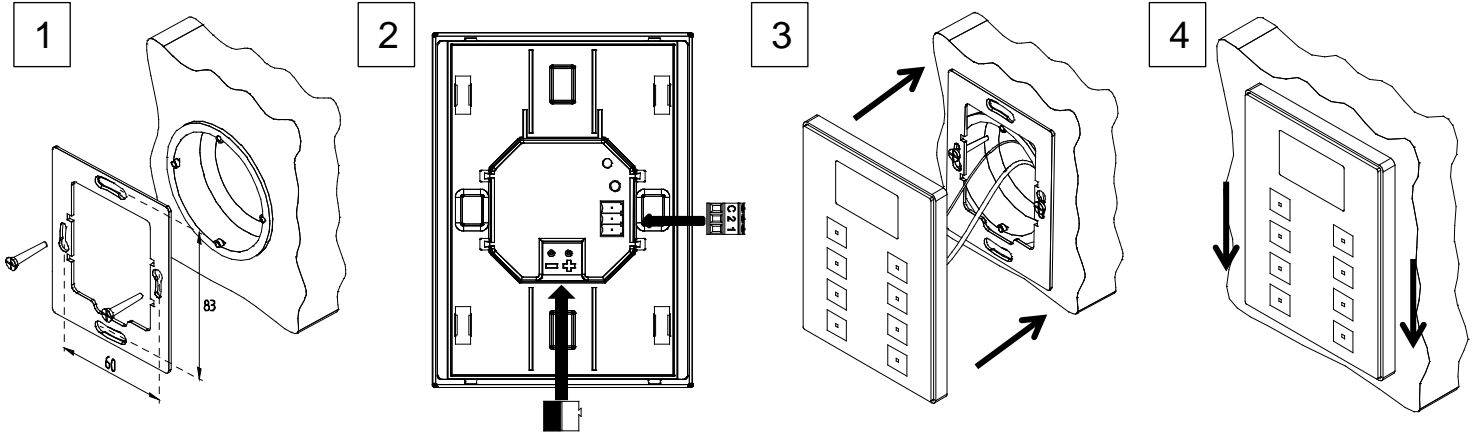
**Step 1:** Place the metallic piece into a squared or rounded standard mounting box with the own screws from the box.

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

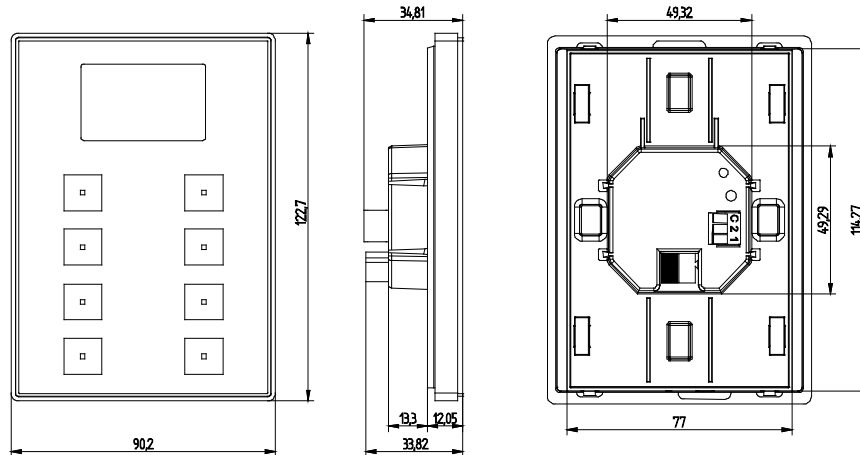
**Step 3:** Once inputs and bus KNX are connected, fit the device in the metal platform. The device is fixed thanks to the magnets.

**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 electricians following applicable regulations on preventing accidents, as required by law
- Do not connect Main Voltage (230 VAC) or any other external voltages to any point of the BUS.
- Connecting an external voltage might put the entire KNX system at risk.
- Make sure during the installation that there is always sufficient insulation between the mains voltage 230VAC and the bus or the extension inputs.
- 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>.

