Touch-MyDesign Plus

Touch-MyDesign Plus. KNX Capacitive Touch Switch
ZVI-TMDP4, ZVI-TMDP6, ZVI-TMDP8

Technical Documentation

CHARACTERISTICS

- Completely customized image for printout glass, through web application.
- 4, 6 or 8 main touch areas.
- 5 auxiliary touch areas.
- 2 analog/digital inputs.
- No power supply different from the bus needed.
- Thermostat.
- Temperature sensor.
- Status LED indicators.
- Custom LED 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).
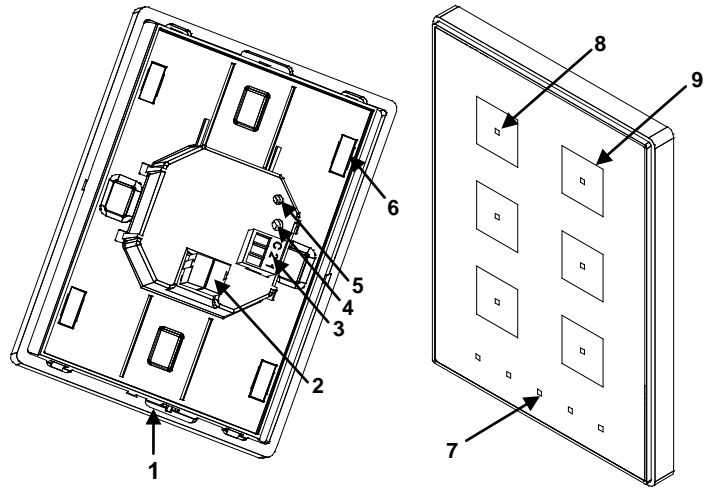
1. Temperature sensor	**2**. KNX bus	**3**. Analog/digital inputs	**4**. Programming button	**5**. Programming LED
6. Magnet	**7**. Lower LED	**8**. Upper LED	**9**. Upper touch area	

Programming button: used to set the device in "programming mode". If this button is held while plugging the device into the KNX bus, it goes into safe mode.
Programming LED: LED ON indicates programming mode. Blinking every 0.5 seconds when device is in safe mode.

Figure 1. Touch-MyDesign Plus 6

GENERAL SPECIFICATIONS

| CONCEPT			DESCRIPTION
Device type			Electric operation control device
KNX Supply	Voltage		29V DC
	Voltage range		21…31V DC
	Maximum consumption	24VDC	8.5mA
		29VDC	7mA
	Connection type		TypicalTP1 bus connector, 0.50mm^2 section
Operating temperature			from 5º C to +40º C
Storage temperature			from -20º C to +60º C
Ambient humidity (relative)			from 30 to 85% RH (no condensation)
Storage humidity (relative)			from 30 to 85% 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 or horizontal position. See example in "installation and connection diagram"
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			Data recovery
Weight			140 gr. without metallic stand / 180 gr. with metallic stand
PCB CTI index			175 V
Enclosure material			PC+ABS FR V0 halogen free

INPUT CONNECTIONS

CONCEPT	DESCRIPTION
Number of inputs	2
Output voltage of the inputs	+3.3V DC 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 and matching socket
Max.cable length	30m.
NTC sensor cable length	1.5m. (extendable up to 30m.)
NTC accuracy (@ 25ºC)	0.5ºC
Temperature measure resolution	0.1ºC
Cable cross-section	from 0.15 mm² to 1 mm²
Response time OFF → ON	Maximum 10ms.
Response time ON → OFF	Maximum 10ms.
Operation indicator	None

INTERNAL TEMPERATURE SENSOR SPECIFICATIONS

CONCEPT	DESCRIPTION
Measuring range	-10ºC to 50ºC
Resolution	0.1ºC
Sensor precision @25ºC	1%

INPUT CONNECTIONS

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

Temperature Probe
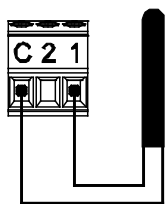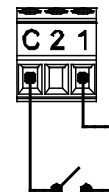
Zennio Temperature Probe

Motion Sensor

Up to two motion sensors can be plugged into the same Touch-MyDesign Plus input (parallel wiring)

Motion sensor screw terminal.

Motion sensor references:
ZN1IO-DETEC-X
ZN1IO-DETEC-P [1]

Switch/Sensor/Push Button

(1) The micro switch number 2 in the ZN1IO-DETEC-P **must be in Type B position** to work properly.

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 Touch-MyDesign Plus in the metal platform. The device is fixed thanks to the magnets.
Step 4: Slid Touch-MyDesign Plus downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Touch-MyDesign Plus outline can be seen.

To uninstall proceed the reverse way.
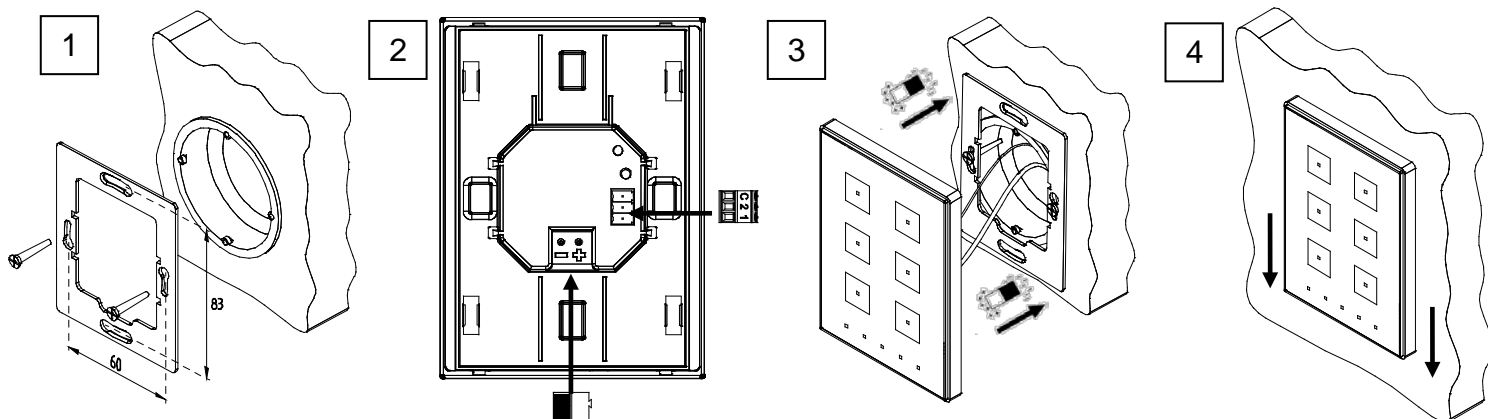
MAIN DIMENSIONS
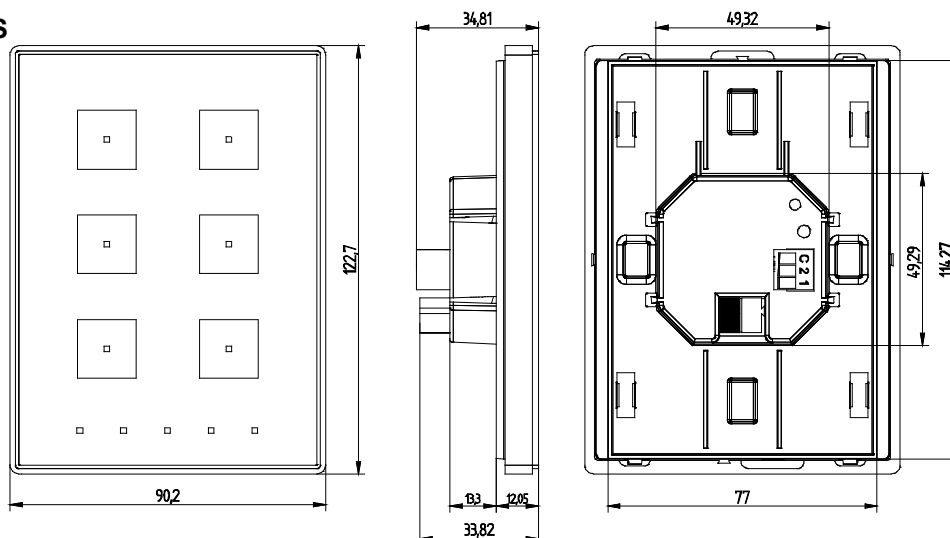
GENERAL CARE

- 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.