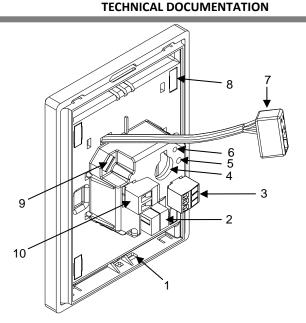
•Zennio

Capacitive color touch panel with IP connection

ZVI-Z41PRO

FEATURES

- 4.1" capacitive color touch panel
- 16 million color LCD display
- Up to 12 configurable pages
- Up to 96 configurable direct control and/or indicator functions
- 2 independent thermostats
- 2 analog/digital inputs
- Customized device orientation (Vertical or Horizontal)
- Built-in temperature sensor
- Real Time Clock (RTC) with watch battery and NTP support
- External 12-29VDC power supply
- Integrated KNX BCU
- Mini-USB and Ethernet connection
- Magnetic fit
- Complete data saving in case of power failure
- Conformity with the CE directives (CE-mark on the back side)



741 Pro

Figure 1: Z41 Pro

6 Programming LED 7 Ethernet connector 8 Magnet 9 Mini-USB connector 10 External power supply co	1. Temperature probe	KNX connector	3. Input connector	4. Battery	5.Programming button
	6. Programming LED	7. Ethernet connector	8. Magnet	9. Mini-USB connector	10. External power supply connect

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

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

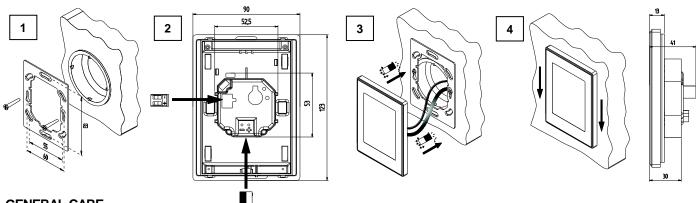
GENERAL S	SPECIFICATIO	ONS					
CONCEPT			DESCRIPTION				
Type of device		Electric operation control device					
Voltage (typical)			29VDC SELV				
	Voltage range		2131VDC				
KNV cupply	Maximum	Voltage	mA mW				
KNX supply	consumption	29VDC (typical)	6	174			
	consumption	24VDC ¹	10	240			
Connection type			Typical TP1 bus connector for 0.80mm Ø rigid cable				
External power supply			12- 29 VDC. Maximum consumption: 250mA (12VDC), 112mA (24VDC), 86mA (29VDC). Do not connect 29VDC KNX bus as external power supply				
Operation terr	nperature		5°C +45°C				
Storage tempe	erature		-20°C +55°C				
Operation humidity		5 95%	595%				
Storage humidity		595%					
Complementary characteristics		Class B					
Protection class							
Operation type	Operation type		Continuous operation				
Device action type			Type 1				
Electrical stress period			Long				
Degree of protection			IP20, clean environment				
Installation		Portrait or landscape position, with the temperature sensor at the bottom or right, respectively. Magnetic fit. See Installation instructions section.					
Minimum clearances			Please, keep away from heat a measurements.	Please, keep away from heat and cold air flows to get better temperature measurements.			
Response on KNX bus failure		Data saving according to parar	Data saving according to parameterization. Initialization screen.				
Response on KNX bus restart		Data recovery according to parameterization					
Response on power supply failure			Complete data saving. Display is switched off				
Response on power supply recovery		Current data recovery					
Operation indicator		Several on display as programmed					
Accessories			RJ45 cable connector (included). Mini USB A-B cable Ref. ZN1AC-UPUSB				
			(not included)				
Weight				237g (AI) / 226g (PC)			
PCB CTI inde	x		175V	175V			
Housing material			PC+ABS FR V0 halogen free	PC+ABS FR V0 halogen free			

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

CONCEPT			DESCRIPTION				
	Measuring range	-1	0°C to 50°C				
	NTC accuracy (@ 2	5°C) ±0	±0.5°C				
	Temperature resolut	tion 0.	0.1°C				
Temp. Probe	Calibration	Th pc flu	The temperature sensor should be calibrated through the application program according to the expower supply connected. Moreover, to avoid fluctuations in the temperature measuremen flush-mounted box must be completely sealed once the cables are inside. Airtight the polyurethane foam, silicone rubber or similar non-breathable construction materials can be				
	Accuracy	1	minute in display / 1 second in	KNX bus			
	Precision)ppm				
Pov	Power supply		CR1225 3V battery				
	Data/time Set	M	Manual (set from screen) or auto (through KNX clock telegrams in bus or NTP server)				
	Response on power external power supp	failure (bus or	It does not affect to internal clock				
	Response on power						
			CATIONS AND CONNE	CTIONS			
CONCEPT	WER SUFFET AN		CATIONS AND CONNE				
Power supply voltage	10	12-29VDC					
Connection method	Pluggable screw		y terminal block				
		0.2-2.5mm ² (IEC) / 2					
USB Connector Please refer to The information		150mA. Please refer to the u The information abo	A connector. Version 2.0. Do not connect to PC, hard drives or other devices with consumption higher that the user manuals at <u>www.zennio.com</u> for details on how to upgrade the firmware through this port. In about the underlying software licenses can be downloaded through the USB port by connecting a flast containing an empty folder named Z41_LICENSE (please ensure that the firmware version is 3.4.3 or greate				
Ethernet Connector RJ45 connecto		RJ45 connector with	r with 4 poles: Rx(+), Rx(-), Tx(+) and Tx(-). t, consult the Manual for Firmware Update at www.zennio.com.				
INPUTS SPEC	FICATIONS AND C		Any combir	nation of the next accessories	es is allowed in the inputs:		
CONCEPT	DESCRIPT		Temperature	Probe	Switch/Sensor		
Number of inputs	2				Push button		
Inputs per common	2		120	Zennio			
Operation voltage	+3.3VDC ir	n the common		Temperature	120		
Operation current	1mA @ 3.3	SVDC (per input)	<u>ф</u>	따느딱 Probe			
Switching type	common	e contacts between inpu	it and	■ 1			
Connection method		screw terminal block		Motion Sensor	L _a \ _a _		
Cable cross-section	0.2-1.5mm	² (IEC) / 28-14AWG (UL)					
Maximum cable leng				120	Up to two motion sensor		
NTC probe length		1.5m (extensible up to 30m)			can be plugged into th		
NTC accuracy (@ 2		² ±0.5°C		RDP	same device input (paralle		
	emperature resolution 0.1°C			X	wiring)		
Maximum response				$\langle \rangle$			
For Zennio tempe	•		umber 2 must be in Type B		Screw terminal for connecting Zennio motic		

INSTALLATION INSTRUCTIONS

- 1. Place the metallic piece into a square or rounded standard mounting box with screws.
- 2. Connect the KNX bus, inputs and Ethernet at the rear of Z41 Pro, as well as the external power.
- Once it is connected, fit Z41 Pro in the metal platform. The device is fixed through the magnets. 3.
- Slid Z41 Pro downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Z41 Pro outline can be seen 4. (the metal platform should be completely hidden by Z41 Pro).
- 5. In case of landscape configuration, please follow the steps considering a 90° counter-clockwise rotation.
- To uninstall proceed in the reverse way.



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 (condensation over the device included) and do not cover it with clothes, paper or any other material while in use.
- The WEEE logo means that this device contains electronic parts and it must be properly disposed of by following the instructions at https://www.zennio.com/en/legal/weee-regulation.

sensors'