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 12-29 VDC power supply
- Integrated KNX BCU (TP1-256)
- Mini-USB and Ethernet connection
- Magnetic fit
- Complete data saving in case of power failure
- Conformity with the CE, UKCA, RCM directives (marks on the back side)

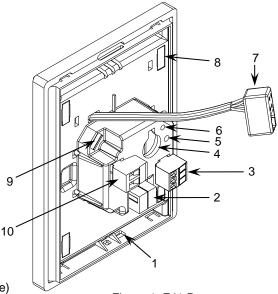


Figure 1: Z41 Pro

1. Temperature probe	2. 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 connector

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)		29 VDC SELV	29 VDC SELV			
KNX supply	Voltage range		21-31 VDC	21-31 VDC			
	Maximum	Voltage	mA	mW			
	consumption	29 VDC (typical)	6	174			
	consumption	24 VDC ¹	10	240			
	Connection type			Typical TP1 bus connector for 0.8 mm Ø rigid cable			
				12-29 VDC. Maximum consumption: 250 mA (12 VDC), 112 mA (24 VDC),			
External powe	er supply			86 mA (29 VDC). Do not connect 29 VDC KNX bus as external power			
			supply				
Operation ten				5 +45 °C			
Storage temp				-20 +55 °C			
Operation hur				595%			
Storage humidity			595%				
	ary characteristic	S		Class B			
Protection class							
Operation type		Continuous operation					
Device action type			Type 1	Type 1			
Electrical stre	ess period		Long				
Degree of pro	otection			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 hea	Please, keep away from heat and cold air flows to get better temperature				
		measurements.					
Response on KNX bus failure			Data saving according to parameterization. Initialization screen.				
Response on KNX bus restart		Data recovery according to particular	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			237 g (Al) / 226 g (PC)				
PCB CTI index			175 V				
Housing material			PC+ABS FR V0 halogen free n-In model).	PC+ABS FR V0 halogen free			

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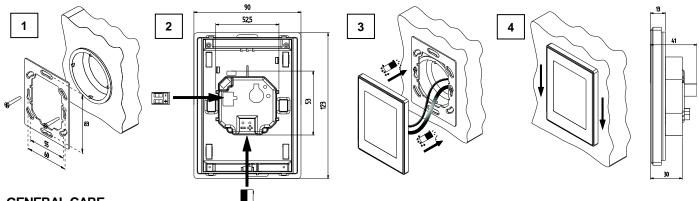


TECHNICAL DOCUMENTATION

CONCEPT			DESCRIPTION				
	Measuring range	asuring range -10.					
Temp. Probe	NTC accuracy (@ 25		±0.5 °C				
	Temperature resolution	on 0.1	0.1 °C				
	Calibration	po flu	The temperature sensor should be calibrated through the application program according to the externa power supply connected. Moreover, to avoid fluctuations in the temperature measurement, the flush-mounted box must be completely sealed once the cables are inside. Airtight boxes polyurethane foam, silicone rubber or similar non-breathable construction materials can be used.				
	Accuracy		1 minute in display / 1 second in KNX bus				
Prec	Precision	30	30 ppm				
	Power supply		R1225 3V battery				
Clock	Data/time Set		Manual (set from screen) or auto (through KNX clock telegrams in bus or NTP server)				
Re	Response on power fa	ailure (bus or	does not affect to internal clo				
	Response on power r	/	The internal error shows current time				
			CATIONS AND CONN	IECTIONS			
CONCEPT	IN SUPPLI AND	DESCRIPTION	SATIONS AND COM				
Power supply voltage		12-29 VDC					
			ble screw terminal block (0.4 Nm max.)				
Cable cross-section of power supply		0.2-2.5 mm ² (IEC) / 22-12 AWG (UL)					
	ener eupply	Mini USB type A connector. Version 2.0. Do not connect to PC, hard drives or other devices with consumption higher than					
USB Connector Ethernet Connector		Please refer to the user manuals at <u>www.zennio.com</u> for details on how to upgrade the firmware through this port. The information about the underlying software licenses can be downloaded through the USB port by connecting a flas memory drive containing an empty folder named Z41_LICENSE (please ensure that the firmware version is 3.4.3 or greater RJ45 connector with 4 poles: Rx(+), Rx(-), Tx(+) and Tx(-). To use this port, consult the Manual for Firmware Update at www.zennio.com.					
					essories is allowed in the inputs:		
INPUTS SPECIFIC			Temperatur				
CONCEPT	DESCRIPTIO	ON			Switch/Sensor		
Number of inputs	2			Zammia	Push button		
Inputs per common	2		120	Zennio			
Operation voltage		the common	•_•	Temperature	120		
Operation current		VDC (per input)		Probe	₽₽		
Switching type	common	contacts between input					
Connection method	Pluggable s max.)	Pluggable screw terminal block (0.2 Nm max.)		Motion Sensor			
Cable cross-section	0.2-1.5 mm ²	(IEC) / 28-14 AWG (UL))		Up to two motion sensor		
Maximum cable length	30 m			1 2 C	can be plugged into th		
NTC probe length	1.5 m (exten	sible up to 30 m)		QOP			
NTC accuracy (@ 25 °C					same device input (paralle		
Temperature resolution	0.1 °C			\frown	wiring)		
Maximum response time				()			
For Zennio temperatu	ire probes.	or, its micro switch nu	Imber 2 must be in Type	B position	Screw terminal for connecting Zennio motio		

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.
- 3. Once it is connected, fit Z41 Pro in the metal platform. The device is fixed through the magnets.
- 4. 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 (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 AND ADDITIONAL NOTES

- 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.

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