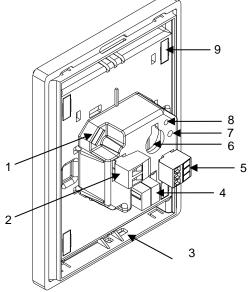
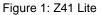
•Zennio® Capacitive color touch panel

ZVI-Z41LIT

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.
- External 12-29VDC power supply.
- Integrated KNX BCU.
- Mini-USB connection.
- Magnetic fit.
- Complete data saving in case of KNX bus failure.
- Conformity with the CE directives (CE-mark on the back side).





1. Mini-USB connector	External po	wer supply connector	3. Temperature probe	4. KNX connector
5. A/D inputs 6. Battery		7.Programming button	8. Programming LED	9. Magnet

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 SPECIFICATIONS						
CONCEPT		DESCRIPTION	DESCRIPTION			
Type of device		Electric operation control devic	Electric operation control device			
	Voltage (typic	al)	29VDC SELV			
	Voltage range		2131VDC	2131VDC		
KNX supply	Maximum consumption	Voltage mA		mW		
		29VDC (typical)	6	174		
	consumption	24VDC ¹	10	240		
	Connection ty	ре	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 ten	nperature		5°C +45°C			
Storage temperature		-20°C +55°C	-20°C +55°C			
Operation hu	midity		5 95%			
Storage humi	dity		5 95%	595%		
Complementa	ary characteristic	S	Class B			
Protection class						
Operation typ	e		Continuous operation	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 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				Mini USB A-B cable Ref. ZN1AC-UPUSB (not included)		
Weight			229g (Al) / 221g (PC)			
PCB CTI index			175V			
Housing material			PC+ABS FR V0 halogen free	PC+ABS FR V0 halogen free		
Maximum consumption in the worst-case scenario (KNX Fan-In model)						

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

Z41 Lite

TECHNICAL DOCUMENTATION

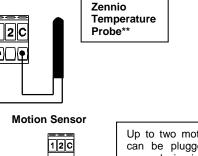
INTERNAL TEN	IPERATI	JRE SENSO	R AND CLOCH	K SPEC	IFICATIONS		
CONCEPT				DESCRIPTION			
Meas		suring range		-10°C to 50°C			
	NTC ac	FC accuracy (@ 25°C)		±0.5°C			
	Temper	nperature resolution		0.1°C			
Calibr		ration		The temperature sensor should be calibrated through the application program according to the external power supply connected.			
Accuracy		су	1 minute i		e in display / 1 second in KNX bus		
	Precisio	cision		30ppm			
	Powers	wer supply		CR1225 3V battery			
Clock	Data/tin	ne Set		Manual (set from screen) or auto (through KNX clock telegrams in bus)			
Response on power fail external power supply) Response on power rec		ponse on power failure (bus or rnal power supply)		It does not affect to internal clock			
		covery	The internal error shows current time				
-	WER 50	PPLT AND			ONS AND CONNECTIONS		
CONCEPT			DESCRIPTION	N			
Power supply voltage 12-29VDC							
Connection method Pluggable screw							
Cable cross-section of power supply 0.2-2.5mm ² (IEC)							
USB Connector Please refer to the us The information about		connector. Version 2.0. Do not connect to PC, hard drives or other devices with consumption higher than e user manuals at <u>www.zennio.com</u> for details on how to upgrade the firmware through this port. about the underlying software licenses can be downloaded through the USB port by connecting a flash taining an empty folder named Z41_LICENSE (please ensure that the firmware version is 3.4.3 or greater).					
INPUTS SPECI	FICATIO	NS AND CO	NNECTIONS		Any combination of the next accessorie	as is allowed in the inputs.	
CONCEPT		DESCRIPTION			Any combination of the next accessories is allowed in the inputs		
Number of inputs		2					
Inputs per common 2				Temperature Probe Switch/Senso			
Operation voltage					Push button		
Operation current		1mA @ 3.3VDC (per input)					

CONCEPT	DESCRIPTION		
Number of inputs	2		
Inputs per common	2		
Operation voltage	+3.3VDC in the common		
Operation current	1mA @ 3.3VDC (per input)		
Switching type	Dry voltage contacts between input and		
Switching type	common		
Connection method	Pluggable screw terminal block		
Cable cross-section	0.2-1.5mm ² (IEC) / 28-14AWG (UL)		
Maximum cable length	30m		
NTC probe length	1.5m (up to 30m)		
NTC accuracy (@ 25°C) ²	±0.5°C		
Temperature resolution	0.1°C		
Maximum response time	10ms		

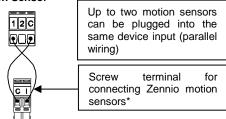
² For Zennio temperature probes.

* In case of using ZN1IO-DETEC-P sensor, its micro switch number 2 must be in Type B position.

** Zennio temperature probe or any NTC with known resistance values at three points in the range [-55, 150°C].



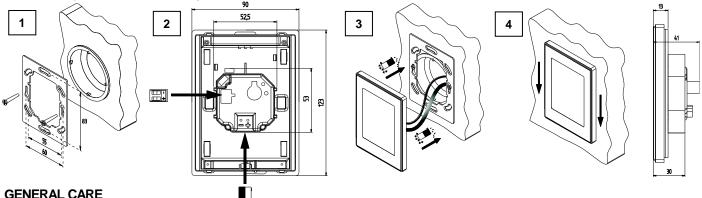




INSTALLATION INSTRUCTIONS

- 1. Place the metallic piece into a square or rounded standard mounting box with screws.
- Connect the KNX bus and the inputs at the rear of Z41 Lite, as well as the external power. 2.
- 3. Once it is connected, fit Z41 Lite in the metal platform. The device is fixed through the magnets.
- Slid Z41 Lite downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Z41 Lite outline can be seen 4. (the metal platform should be completely hidden by Z41 Lite).
- 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 http://zennio.com/weee-regulation.