

### CHARACTERISTICS

- 4.1" capacitive color touch panel.
- LCD display of 16 million colors.
- Up to 6 configurable pages.
- 48 configurable direct control and/or indicator functions.
- 2 independent thermostats.
- Additional screens to control:
  - Configuration.
  - Tools.
- Built-in temperature sensor.
- Real Time Clock (RTC) with watch battery.
- External power supply 12-29VDC needed.
- KNX BCU integrated.
- Connections: Ethernet RJ45 4 poles/USB.
- Magnetic fit.
- Complete data saving in case of power failure.
- CE directives compliance.

1. KNX Connector	2. Programming Button	3. Programming LED	4. External power supply connector
5. Mini-USB connector	6. Ethernet connector	7. Battery	8. Temperature sensor
		9. Magnet	

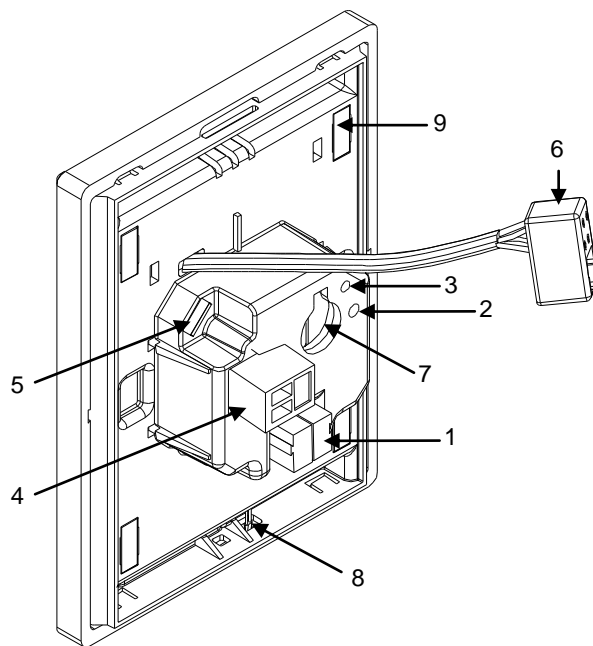


Figure 1. InZennio Z41

**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.

### 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)	6		174
		24VDC	10		240
Bus connection			Typical bus connector TP1, 0.50 mm² section		
External power supply			12- 29 VDC. Maximum consumption: 150mA (12VDC), 76mA (24VDC), 63mA (29VDC). For minimum consumption use 12VDC. <b>Do not connect 29VDC KNX bus as external power supply</b>		
Operating temperature			0° C to +45° C		
Storage temperature			-20° C to +60° C		
Ambient humidity (relative)			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		
N° of Automatic cycles per auto action			100.000		
Type of protection			IP20, clean environment		
Assembly			Independent Control Assembly device. Vertical position, with the temperature sensor to the bottom. Magnetic fit. See <i>Installation and Connection Diagram</i>		
Minimum clearances			Keep away from heat and cold air flows to get better temperature sensor measures		
Response to bus voltage failure			Complete data saving. Initialization screen.		
Response to bus failure recovery			Before failure data recovery		
Response to external power supply failure			Complete data saving. Display is switched off		
Response to external power supply failure recovery			Current data recovery		
Function indicator			Several on display as programmed		
Accessories			RJ45 Connector cable (included). Mini USB A-B cable Ref. ZN1AC-UPUSB (not included)		
Weight			190 gr. Without metallic piece / 230 gr. With metallic piece		
PCB CTI Index			175 V		
Enclosure material			PC+ABS FR V0 halogen free		

### POWER SUPPLY, CONNECTION AND PORT SPECIFICATIONS

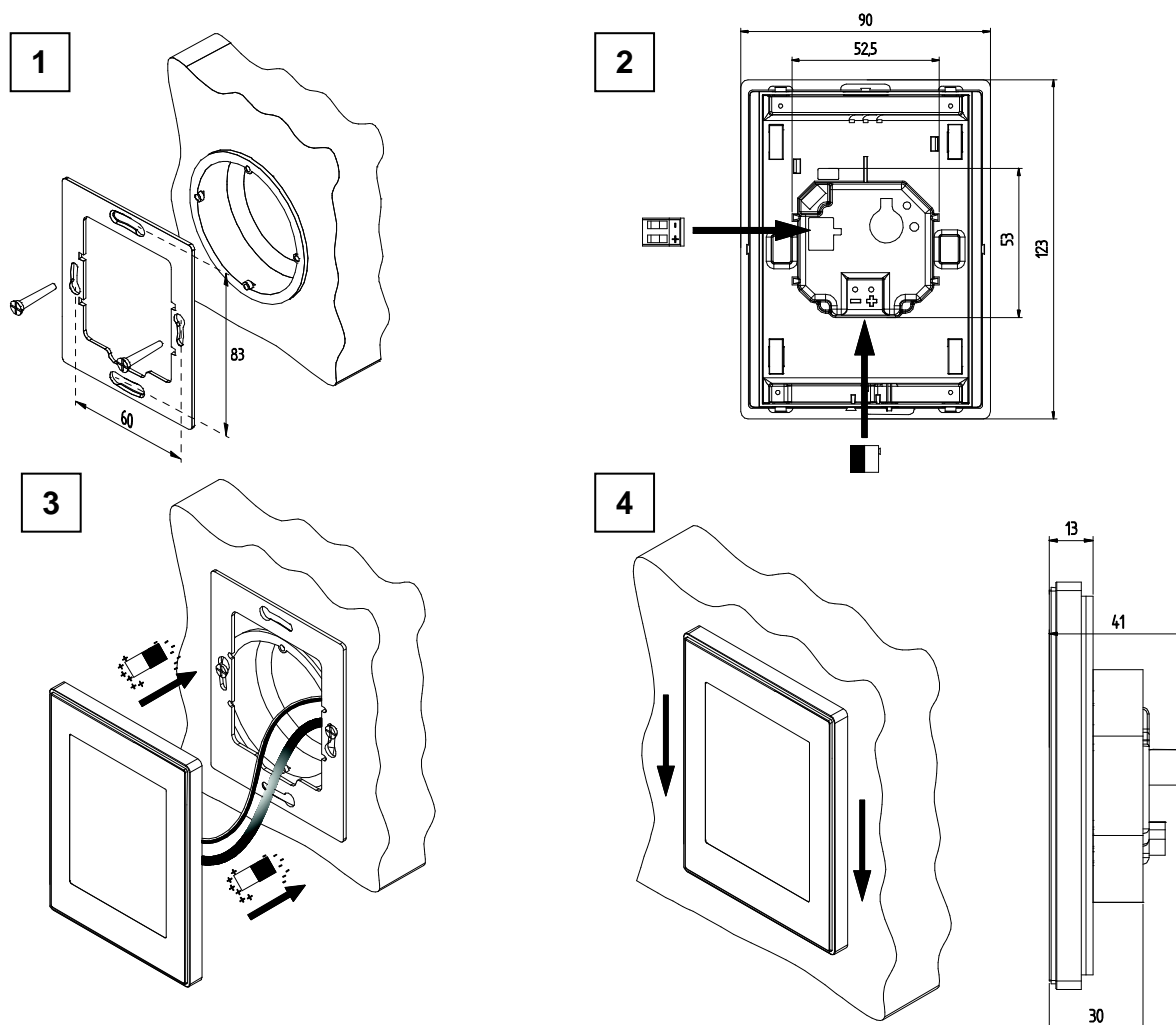
CONCEPT	DESCRIPTION
External power supply connection	Cable screw terminal and matching socket
Ethernet connector	RJ45 connector with 4 poles: Rx(+), Rx(-), Tx(+) and Tx(-). To use this port, consult the <i>Manual for Firmware Update</i> at <a href="http://www.zennio.com">www.zennio.com</a> .
USB connector	Mini USB type A connector. Version 2.0. Use this port only for firmware updates. Consult the <i>Manual for Firmware Update</i> at <a href="http://www.zennio.com">www.zennio.com</a> . Do not connect to PC, hard drives or other devices with consumption higher than 150 mA.

TEMPERATURE SENSOR AND INTERNAL CLOCK SPECIFICATIONS	
CONCEPT	DESCRIPTION
<b>INTERNAL TEMPERATURE SENSOR</b>	
Measuring range	-10 to 50°C
Resolution	0.1°C
Sensor precision @25°C	1 %
Calibration	The temperature sensor should be calibrated through the application program according to the external power supply connected and the frequency of usage
<b>INTERNAL CLOCK</b>	
Resolution	1 minute in display/ 1 second in KNX bus
Precision	30 ppm
Power supply	SR44 1.5V battery (batch numbers before 13X04XXXX) CR1225 3V battery (batch number 13X04XXXX and following)
Data/Time set	Manual (set from screen) or auto (through KNX clock telegrams in bus)
Response to power failure (bus or external power supply)	It does not affect to internal clock
Response to power recovery	The internal error shows current time

## INSTALLATION AND CONNECTION DIAGRAMS

**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 Z41, as well as the external power supply terminal.  
**Step 3:** Once the power supply and bus KNX are connected, fit Z41 in the metal platform. The device is fixed thanks to the magnets.  
**Step 4:** Slid Z41 downwards to fix it with the security anchorage system. Check, from the side, that nothing unless Z41 outline can be seen (the metal platform should be completely hidden by Z41).

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



- Do not connect the main voltage (230V) or any other external voltages to any point of the KNX bus or the device. 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 rain or high humidity.