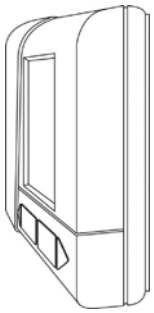
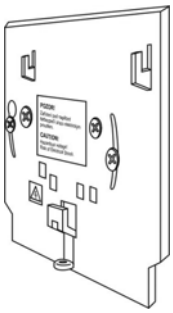
ITH 433-P Temperature Controller Installation



Part 1: ITH 433-P
Regulator Unit



Part 2: ITH 433-P
Connection Unit

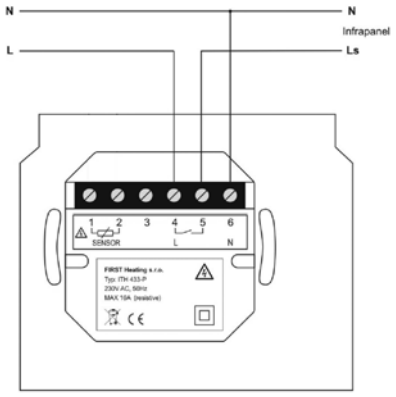
⚠ CAUTION!

- The equipment may only be installed by persons with the appropriate certification to work with electrical equipment.
- Local safety regulations must be followed.
- The controller is designed to regulate temperature in ordinary, dry, indoor environments.
- Ensure that the electrical supply line is disconnected from the mains before installation.
- The relevant guidelines must be complied with to meet the requirements of IEC protection class II.
- Do not use the device if its cover is damaged or if it is improperly attached to the wall. If this may be the case, disconnect/switch off the controller from the mains supply and contact an authorized service provider.

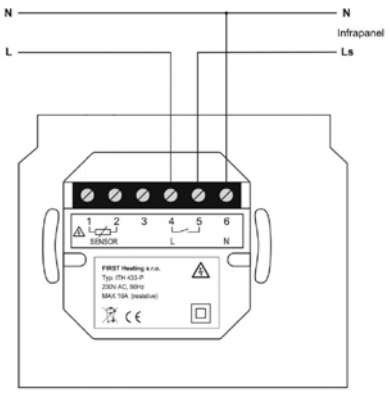
Selecting a suitable location for the temperature controller:

The controller should be positioned at a location where

- it can be accessed easily for use/servicing.
- it will not become obstructed by curtains, cabinets, shelves or similar obstacles.
- there is free circulation of air.
- it is away from continual, direct sunlight.
- it will not become affected by other heat sources.
- it is approximately 1.5 m above the floor.



Wiring diagram of the ITH 433-P for wireless control of the IR panel

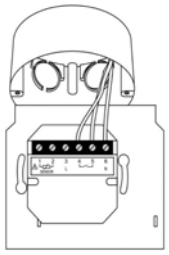


Wiring diagram of the ITH 433-P for direct wired control of the IR panel

Installation Procedure:

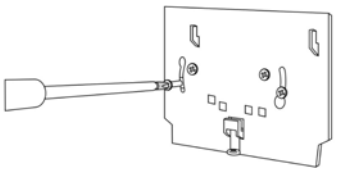
⚠ Attention! Ensure that the electrical supply is disconnected - switch the circuit off before beginning installation.
The ITH 433-P connection unit is designed to link to its electrical supply inside a plastic wall conduit box (60mm). When installing the connection unit, ensure that its flat backing is flush with the wall. Use power supply wires with cross sections of 1mm² to 2.5 mm², ends stripped 7mm.

1.



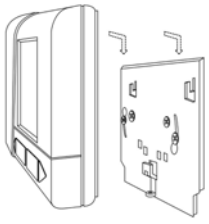
Link the electrical supply wires to the connection unit.

2.



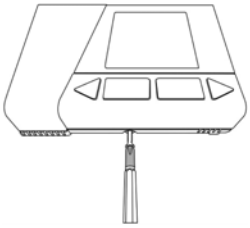
Attach the connection unit to the wall conduit box using 2.9mm x 16mm screws (DIN 7982).

3.



Insert the battery into the regulator unit at the correct polarity, and then attach the regulator unit to the connection unit.

4.



Secure the regulator to the connection unit with one 2.2mm x9.5 mm screw (DIN 7982).

- Ensure that all components are properly and securely mounted.
- Turn on the breaker/switch to power the ITH 433-P.

Changing the battery:

⚠ Attention! Before replacing the battery, the ITH 433-P regulator must be disconnected from the mains supply.
A 3.6V battery is supplied to prevent data loss in the thermostat in the event of a loss of supply voltage. The battery life is approximately 10 years. The low battery indicator will display at the left edge of the LCD when it necessary for the battery to be replaced.
To replace the battery:
1. Switch off the power supply from the ITH 433-P.
2. Remove the 2.2mm x 9.5mm screw from the bottom of the regulator unit.
3. Remove the regulator unit from the connection unit and replace its battery (type ER1450M – 3.6V) at the correct polarity.
4. Attach the regulator unit to the connection unit.
5. Replace the 2.2mm x 9.5mm screw to secure the regulator unit to the connection unit.
6. Ensure that all components are properly and securely mounted.
7. Switch on the power supply to the ITH 433-P.

NOTE FOR BASIC SERIES PANELS

When using the 433 ITH-P to control BASIC heating panel models, it is recommended to:
1) leave the regulator unit in its default MAX mode and
2) keep the default on/off hysteresis setting in parameter 4 assigned to zero (Pr4=0).

Technical Specifications – ITH 433-P Temperature Controller

Product Name:	ITH 433-P
Operating Voltage:	230V AC, 50Hz
Switching power (live wire L):	230V 16A/3000W – resistance capacity
Temperature Range:	7°C-35°C, selected by 0.5°C increments
Temperature Sensor:	Digital
Radio Signal Frequency:	433.92 MHz
Device Protection:	IP30
Device Category:	II
Operating Temperature:	0°C to 40°C
Storage Temperature:	-20°C to 70°C
Operating Humidity:	25% to 85%