Wireless module

4280

Description

The 4280 radio module (868MHz/two-direction) allows expanding the system with sensors (up to 64 wireless devices for each radio module for a total of 128 wireless zones) and radio remote controls (max. 20).

Up to 2 transceivers can be connected to the BUS both to expand the signal coverage and to act as back-up to each other.

The second radio module can also act as signal repeater for the first. In this case a rechargeable battery (item 4238, not supplied) can be added to the device so that it can continue working even when there is a long power cut.

The device is protected by the anti-jamming function which sends a sabotage alarm signal to the central unit when the radio channel is jammed.

Certification: EN 50131 Index 2 Environmental Class II

Related items

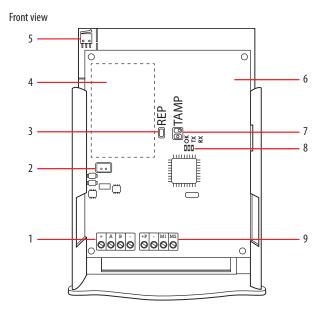
4238 Lithium ion battery 7.4Vcc-850mAh

Technical data

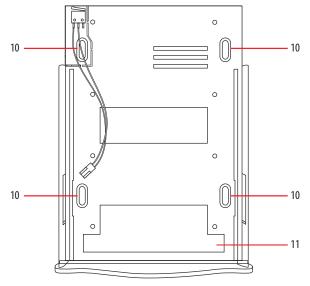
Frequency	868MHz
Supply voltage	9.6 –14.5Vdc
Absorption	50mA max
Humidity	95%
Operating temperature	(-10) − (+40) °C
Humidity	95%
Lithium ion battery (not supplied - 4238)	7.4Vdc - 850mAh

Dimensional data

Size: 140 x 100 x 28mm (H x L x D)



Front view without card



Legend

- 1. BUS clamps
- 2. Battery connector
- 3. Repeater mode jumper (remove to activate the mode)
- 4. Battery housing
 - (not supplied 4238 Lithium ions 7.4Vdc; 850mAh,
- 5. Anti-tampering microswitch to be connected to the connector 7
- 6. Integrated aerial
- 7. Anti-tampering connector
- 8. LED:
 - OK ON normal operation
 - flashing not corrected configuration or tampering
 - TX ON wireless transmission in progress
 - RX ON wireless reception in progress
- 9. I/O clamps
- 10. Fixing holes
- 11. Cable input



BT00916-b-EN

29/08/2017

Connections between the central unit and the other devices

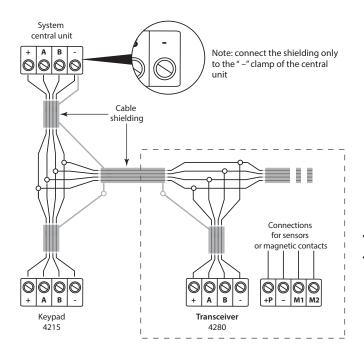
· Connections 4280 in transceiver configuration (max. 2 transceivers)

The system devices communicate each other via BUS.

A twisted and shielded 2-pair multi-polar wire should be used for the connection between the central unit and the system devices:

- first pair for the system BUS (terminals A B);
- second pair for the power supply voltage (+ terminals).

The maximum length of the bus cable extended must not exceed 500 m. To select the most suitable wires, check absorptions and voltage drops on the basis of the length of the section. Rigorously respect the regulations of the country of use .



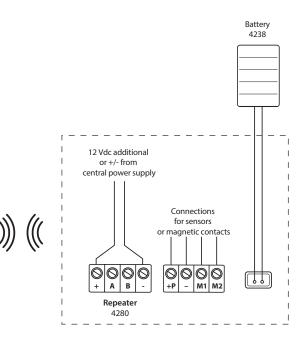
Acquisition 4280 transceiver

The system central unit must recognise the 4280 transceiver; consult the TiAlarm software manual for the acquisition procedure.

· Connections 4280 in repeater configuration (max. 2 repeaters)

The "Repeater" mode must be activated by removing the REP jumper (3) before switching the device ON and connecting the battery.

Refer to the diagram below for the connection.



Acquisition 4280 in repeater configuration

- 1. Connect the power supply clamps or the battery 7.4V (battery 4238 not included)
- 2. Close the device
- 3. For more details refer to the TiAlarm software manual.

