

iO-LoRa expander

Range of operation up to 5000 m

With integrated relay

iO-LORA is LoRa wireless expander that expands the number of inputs and outputs with RF-LORA module for FLEXi SP3 control panel using a two-way LoRa wireless connection. The operating range is up to 5000 m. It also has an integrated contact with a relay.



LoRa (short for long range) is a spread spectrum modulation technique derived from chirp spread spectrum (CSS) technology. Semtech's LoRa is a long range, low power wireless platform that has become the de facto wireless platform of Internet of Things (IoT).

LoRa devices have amassed several hundred known uses cases for smart cities, homes and buildings, communities, metering, supply chain and logistics, agriculture, and more.

FEATURES

Communication:

- Line-of-sight wireless range up to 5000 m.
- Up to 8 iO-LORA wireless expanders can be connected to the "FLEXi" SP3 control panel.

Inputs and outputs:

- Bus "1-Wire" is intended for connection of temperature sensors (up to 4 pcs.) and readers of contact ("iButton") keys.
- 1 input, of selectable type: NC, NO.
- 1 output (relay).

Connection:

- The iO-LORA wireless expander is connected to the "FLEXi" SP3 control panel via the RF-LORA transceiver.

SPECIFICATIONS:

Power supply voltage	9-26 V DC
Current consumption	Up to 50 mA (stand-by) Up to 150 mA (short-term, while sending)
Transmission frequency	433,3-434,7 MHz
Modulation type	LoRa
Report encryption	Yes
Range in open space	5000 m
Input	1, selectable type: NC, NO
Output	1, relay, 250 V AC, 4 A
Temperature sensor	4, Maxim®/Dallas® DS18S20, DS18B20
Operating environment	Temperature from -10 °C to 50 °C, relative humidity - up to 80% at +20 °C
Communicator dimensions	62 x 82 x 25 mm
Weight	0.08 kg

