OrionM2M

LoRaWAN RADIO MODEM

ORIONMETER LA-IP-I2C

Purpose:

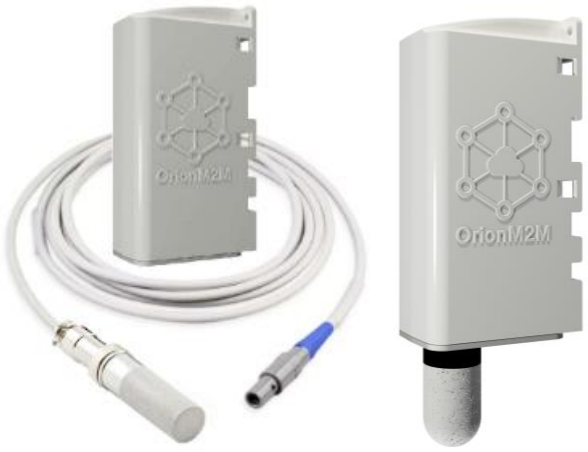
- Remote monitoring and controlling of temperature and relative humidity in housing and communal services, Smart City, Industrial IoT, automated control systems, as well as industrial and household equipment;
- Wireless data transmission to the LoRaWAN network.

building
connected future

BATTERYCARE

LoRa Alliance® Member

ORIONMETER LA-IP-I2C/E



APPLICATION

The radio modem is designed to measure temperature and relative humidity with further transmission of current and accumulated data via radio communication to the LoRaWAN network.

ADVANTAGES

- Built-in and remote version of the sensor;
- The radio modem is activated in the network using a magnet;
- Detection and notification of deviations from the set parameters;
- EasyTool technology allows to perform wireless remotely connected to a radio modem for configuration, software updates, reading the accumulated data via a secure channel;
- The use of BatteryCare® technology allows operating the radio modem for up to 7 years without replacing the power source;
- The non-volatile memory of the radio modem allows to store data for up to 62 days of the hourly profile with the ability to remotely request readings.

Main ones	
Temperature measurement range, ° C	- 20° ... + 60°
Limits of permissible absolute measurement error, ° C	± 0,4
Measurement range rel. humidity, %	10 – 80 (no condensation)
Limits of permissible absolute measurement error, %	± 4
Radio modem activation	With a magnet
Data archiving, days	*62
Power	
Built-in battery capacity, mAh	3650 or **4100
Built-in battery voltage, V	3,6
Battery chemistry	Li-SOCl2
Service life without battery replacement, years	≥ 7
Warranty period of operation, months	36
Guaranteed number of packets sent by the device, at least pcs.	40 000

* - depends on the archiving interval
* * - it is possible to install a battery of increased capacity 4100 mAh

LoRaWAN	
LoRaWAN device class	A
Working frequency range, MHz	EU863-870 US902-928 AU915-928 CN779-928 AS923 KR920-923 IN865-867 RU864-870 KZ865-868
LoRaWAN activation method	OTAA
LoRa Antenna Type	Internal
Receiver sensitivity, dBm	-137
Transmitter power (EIRP), mW	up to 25
Communication range in urban areas, km	up to 5
Communication range in line of sight, km	up to 15

Body	
Body material	Polycarbonate
Dimensions of the radio modem case, mm	150 x 50 x 30
Weight, g	≤ 90
Degree of protection	IP43
Mount	Pole braces, DIN rail, wall

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