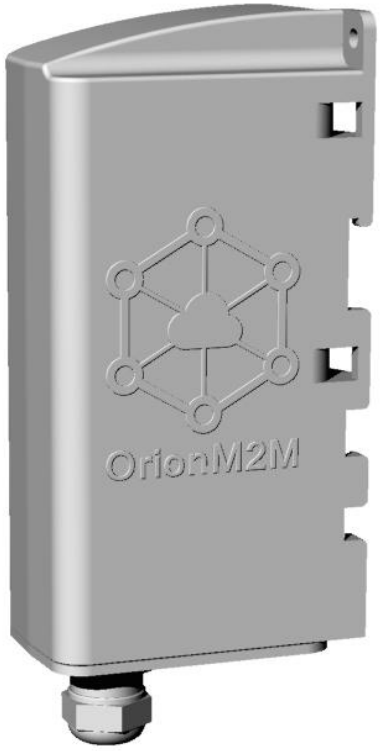
OrionM2M

RADIO MODEM LoRaWAN

ORIONMETER

Accounting for the consumption of cold and hot water, gas, electricity with further transfer of data through the LoRaWAN network to the service provider.



building
connected future

LoRa Alliance Member™

ORIONMETER | SPECIFICATIONS

Radio modem ORIONMETER is a secondary converter, realizes three number of pulse / discrete measurement channels and uses water, gas, electric meters with pulse (telemetric) / electric meters with interface as primary converters.

Radio modem ORIONMETER intended for remote collection of water, gas, heating, electricity indications with future transfer them to the main base. Through the LoRaWAN network these indications is transmitted to the service cloud.

BENEFITS | ORIONMETER

- Lifetime without changing the battery from 7 years
- Up to 4 channels (x3 discrete and x1 RS-485)
- Regular uploading of accumulated energy consumption statistics to the database
- Easy to install and maintain
- Unique technology ORION FDM (Configurator) allows to reduce the time, costs for installation via USB RF tool
- Remote collection of indications in real time
- Operational control over the technological parameters in the networks
- Improving the energy efficiency of engineering systems of municipal and housing funds by obtaining analytical data

SPECIFICATIONS | ORIONMETER

Parameters	Value
Housing material	Polycarbonate
Number of input discrete channels	3
The number of RS-485 channels	1
Work temperature, ° C	-20...+60
Battery voltage, V	3,6
Nominal battery capacity, mA /h	4100
Battery Chemistry	Li-SOCl2
Consumption in sleep mode, mcA	2
Lifetime without battery replacement, years	≥7
Housing protection degree	IP6X
Weight, g	≤200
Dimensions, mm	120 x 50 x 30
Hourly archive, day	62
Maximum frequency, Hz	14

RADIO FREQUENCY CHARACTERISTICS | ORIONMETER

Parameters	Value
Operating frequency, MHz	865-868(KZ) 863-870(RU) 863-870(EU)
Transmitter power (EIRP), mW	up to 25
Receiver sensitivity	-137 dBm
Data transfer rate, kbps	0,3...40
Connection range under conditions city building, km	up to 5
Connection range in visibility conditions, km	up to 15

SUPPORTED DEVICES via RS-485 | ORIONMETER

Resource	Manufacturer	Model	Power
ELECTRICITY	MERCURE	230 ART-01 M CLN (CAN)	YES
		230 ART-01 PQCSIN (CAN)	YES
		230 ART-02 PQRSIN (RS-485)	YES
		230 ART-01 RN (RS-485)	YES
		234 ART-02 P (RS-485)	YES
		200.02 (CAN)	YES
		200.04 (CAN)	YES
	ENERGOMERA	CE102M-S7 XXX XV (RS-485)	NO
		CE303 S31 543-XXVX (RS-485)	NO
	SAYMAN	DALA TX P RS CA4V-3720 (RS-485)	NO
		ORMAN SO-3711 TX RS (RS-485)	NO
		ORMAN SOAR-3717 TX IP P RS (RS-485)	NO
	PZIP	VECTOR-300 DLMS/COSEM (RS-485)	-
HEATING	DECAST METRONIC	STK MARS (RS-485)	YES
	TEPLOVODOHRAN	PULSAR (RS-485)	YES
	VZLET	TSRV-033 (RS-232)	YES
	MAGICA	XXX (RS-232)	YES
	THERMOTRONIC	TV-7 (RS-232)	YES
	TBN ENERGOSERVICE	KM-5 (RS-232)	YES
PRESSURE	CJSC NPK VIP	SDV-E-1.6-RS-485-D3412-0605-1-K00	YES

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