

AUTONOMOUS RADIO MODEM

LoRaWAN for gas meters

ORIONMETER ORN-GMZ-LW868



Purpose:

- ❖ Remote wireless reading of gas flow meters in the areas of Smart Utilities, Smart City, Industrial IoT, automated gas control systems;
- ❖ Monitoring, control and accounting of municipal resources in management systems;
- ❖ Wireless data transmission in the LoRaWAN network.



Novelty! OrionMeter radio modem for Zenner gas meters based on LoRaWAN® communication standards.

Autonomous radio modem OrionMeter ORN-GMZ-LW868 is designed for wireless reading of gas meters, periodic accumulation of meter values in the non-volatile memory of the radio modem, subsequent transfer of accumulated data, as well as data with current values via radio communication to the LoRaWAN® network.

The radio modem independently provides emergency closing of the meter valve in the event of a gas leak and sending an operational message to the dispatcher via the LoRaWAN® network.

Radio modem advantages:

- ❖ Convenience of connection through the standard connector of the gas meter;
- ❖ Self-activation of the radio modem with a gas flow;
- ❖ Activation of the radio modem by a magnet;
- ❖ Detection of magnetic impact during exploitation;
- ❖ Immediate notification and valve closure in case of gas leakage;
- ❖ Remote control of the gas meter check valve;
- ❖ EasyTool technology allows performing wireless remote, connected to a radio modem for configuration, software updates, reading accumulated data via a secure channel;
- ❖ Application of BatteryCare technology allows operating the radio modem for up to 7 years without replacing the power source;
- ❖ The nonvolatile memory of the radio modem allows storing data for up to 62 days of the hourly profile with the ability to remotely request readings.

An autonomous radio modem can be used as a device for remote data collection and transmission via radio communication to a LoRaWAN® network server, from gas meters in apartments of multi-storey residential buildings, individual residential buildings with gas water heaters and stoves, as well as used in automated systems of gas metering.