

Holosys LoRaWAN™ GasPulsar GP-L



- Various Itron and Elster diaphragm gas meter types supported
- Integrated “reed contact” for direct mounting on gas meter
- Battery supplied device with autonomous operation of up to 15 years or more
- Exchangeable battery
- LoRaWAN™ v1.0.2 communication protocol
- Operating frequency 868 MHz

Holosys LoRaWAN™ GasPulsar GP-L is a compact radio module that provides Itron (G4-G25) and Elster (G4-G25) diaphragm gas meter types readout. Compact design with embedded “reed” sensor decreases number of necessary components which guarantees easier mounting and maintainance. It is also possible to mount devices on gas meters, set their parameters and activate them before delivery to the customer which significantly simplifies gas meter installation and implementation into AMR network. LoRaWAN™ v1.0.2 communication protocol provides compatibility with devices from other manufacturers.

KEY FEATURES

- Integrated “reed contact” for direct mounting on gas meter
- Compact design: direct mounting on diaphragm Itron, Elster and Ikom G4-G25 gas meters
- Protection type: IP67
- Operating temperature: -20°C ... 80°C
- LoRaWAN™ radio packets periodical sending for meter readout data transfer
- Radio telegrams adjustable sending interval
- Radio telegram AES-128 encryption in order to protect data content
- Embedded Real-Time Clock (RTC)
- Stored counter number on a due date sending
- Stored manipulation alarm information (Tamper) sending
- Low battery alarm sending
- Device configuration using the AES-128-protected radio channel
- Stored battery low alarm information sending
- Remaining battery life time sending
- User configurable counting impulses vs. value increment factor
- Device configuration using AES-128 protected radio channel

TECHNICAL CHARACTERISTICS

Radio interface	
Frequency	868 MHz SRD band
Communication protocol	LoRaWAN™ v1.0.2; PHY: LoRa®; MAC: LoRaWAN™
Antenna type	Internal
RF(TX) power	14 dBm (25 mW)
RF(RX) sensitivity	Up to -140 dBm
Standards	EN 300-220, EN 301-489-1, EN 301-489-3, EN 60 950-1
General data	
Power supply	Integrated battery Battery life time (25°C): ~ 15 years (depending on the configuration)
Housing	Material: Thermoplastic Dimensions (w x h x l): 72 x 92 x 42 mm Color: Light gray Protection type: IP67 Mounting: Snap-in
Operating temperature range	-20°C ... +80°C
Weight	~ 80 g