

RFO GW08
(GPRS-MaRe Gateway for water meter data transmitting)
LoRa Modulation



DATASHEET

Product name	RFO GW 08
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The RFO Gateway (GW 08) is a communications device for data transmission in a radio network in the free ISM bands - Industrial, Scientific and Medical – 169MHz, 433MHz, 868MHz or 915MHz with **LoRa™ Modulation** that allows data collection of readings made by the LEP devices.

Using a GPRS access, this device can communicate in realtime with any device of the remote reading fixed network at any moment

This is possible due to the intelligent management of battery level and of communications, managing the IPs assigned by phone operators, which enables the devices to stay functional 100% of the time.

The battery and solar panel (GW version) integrates a very efficient charging regulator that keep the batteries in floating charge with as little light as that coming from a streetlight.

System functionality

- Can manage up to 2,000 meters collecting the data obtained.
- Can manage hour schedules for the readings programmed of the LEP devices using the ISM bands without additional communication charges.
- Intelligent communications management to accomplish 100% of the readings programmed.
- Over 10 years life time thanks to solar panel, rechargeable batteries and high performance battery charger specially designed for this use.
- Automatic low battery detection and safe switching to Standby system.
- Warnings associated to monitoring of internal parameters.
- Monitoring of different internal parameters such as Battery Level, Schedule, temperature, etc.
- Reading and Storage of Warnings.
- Reading and Storage of Events.
- Remote Firmware upgrading.
- Masking of warnings.
- Possibility to customize the enclosure based on needs.
- Data encryption.
- Ultra low consumption device.

Technical Specifications

Sensitivity	up to -108dBm and transmission power up to 27dBm
Communication frequency	169MHz, 433MHz, 868MHz or 915 MHz with LoRa™
Transmission range	up to 2,000 meters
Operational temperature	-40C up to 85°C
Data integrity	Super capacitor of 0.33F
Batteries	High capacity interchangeable
Size	220 x 210 x 120 mm



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Typical Applications:

Water management agriculture	Big Parks & Gardens
Water management industrial / municipal applications	Remote animal grazing
Purifying plants	Also useful for any other application with control of liquides
Greenhouse	
Golf areas	

