

## RFO LEP02

(Water meter data transmitting device MaRe-Meter)  
LoRa Modulation



<b>Product name</b>	<b>RFO LEP 02</b>
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The RFO Line End Point (LEP01) 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 that allows to gather metering information from radio meters and bus cable meters.

To provide a solution to needs associated to the reading and control of water meters, the AquaCity system integrates radio frequency modules with high sensitivity and low current consumption with **LoRa™ Modulation!**

The devices gather the readings directly from the meters, making use of different metering protocols adequate for each type of meter, encoding the information and sending it under AquaCity Gateway request.

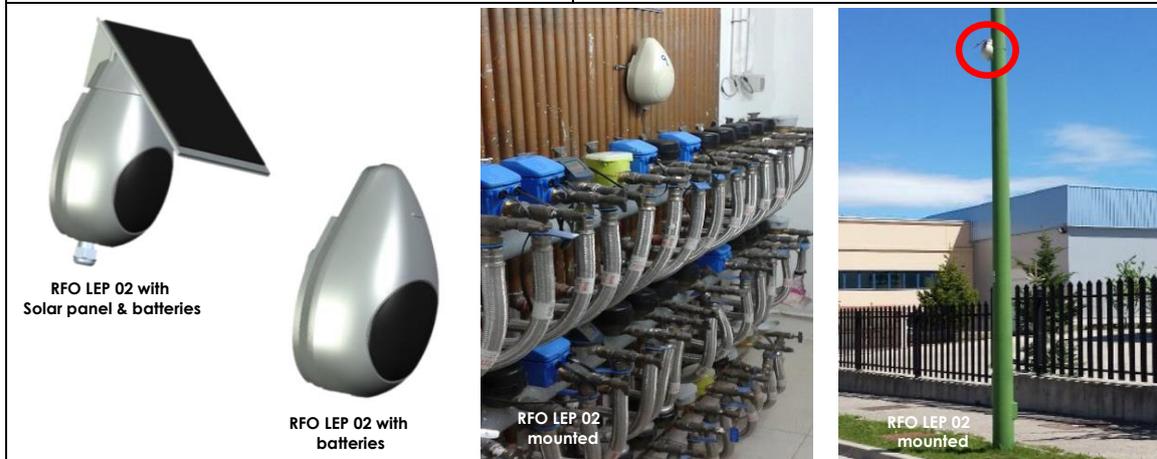
### System functionality

Stand alone intelligent devices with the capacity to obtain data from different types of water meters making use of different radio frequency protocols such as **WAVENIS**, Wireless **Mbus (UNE13575)**,...or cable protocols such as **UNE82326**.

- Intelligent communications management to accomplish 100% of the readings programmed.
- Over 10 years lifetime with interchangeable batteries of great capacity, which allow total flexibility to the installation.
- Remote Firmware upgrading.
- 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.
- Ultra low consumption device.
- Reading and Storage of Events.
- Masking of warnings.
- Possibility to customize the enclosure based on needs.

### Technical Specifications

Sensitivity	up to -108dBm and transmission power up to 27dBm
Communication frequency	169MHz, 433MHz, 868MHz or 915 MHz with <b>LoRa™</b>
Integrated protocols	Wavenis, Mbus (UNE13575), cable bus (UNE82326)
Radio transmissions	up to 90.000
Transmission range	up to 100 meters
Operational temperature	-40C up to 85°C
Data integrity	Super capacitor of 0.33F
Batteries	High capacity interchangeable
Size	200 x 130 mm
Housing	PP with UV protection



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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	

