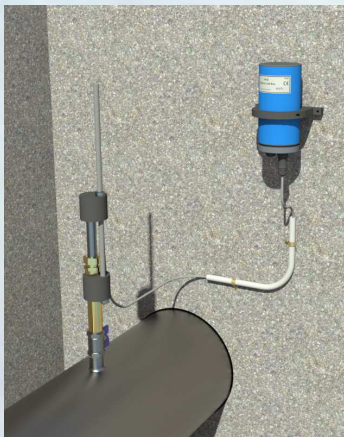# WLB-Q

Wetnet Link Box - IoT Ready

- L*ogger* Unit with GSM/GPRS data link

- MQTT, FTP protocols and SMS for data sending

- Clock synchronization by SNTP protocol

- Local logging on SD card

- Designed for *low-power* applications. Both internal battery and external power source (e.g. Picoturbina)

- Analogue and digital inputs with counter function

- Digital outputs for supplying external instruments

- Clock synchronized using SNTP protocol in GPRS connection

- Internal or external antenna

- USB interface for data downloading and settings

- U*ser-friendly* software for settings and real time data viewing

- Housed in IP68 cylinder

The *link box* **WLB-Q** has been designed specifically for *low-power* acquisition of analogue, digital and pulsed signals. The digital outputs of which is equipped can be used to power the instrumentation for the sampling period (e.g. external pressure sensor, level sensor, flowmeter).

The configuration of the inputs of the **WLB-Q** is not fixed, it can be supplied in different configurations in order to match the real requirement of each application. The user-friendly configuration software allows the setting of all operating parameters.

Main applications:

- Acquisition of pulses from pulse-emitters meter

- Acquisition of the flow measurement and pressure in the districtualisation of water grid

- Acquisition of the flow measurement and level in sewers

- General purpose GPRS logger

The main functions of the **WLB-Q** are to accumulate data on the memory card and the periodic sending of data collected at the processing center via GSM / GPRS.

The measurements are sampled in minutes multiples of the sampling period.

The **WLB-Q** can be equipped with an internal antenna or it can be provided with the connector for an external antenna in order to be used in situations of low signal strength.

Optionally the instrument can be equipped with an internal pressure sensor.

Instrument	*Data logger GSM/GPRS link box*
Internal memory for data logging	SD card 2Gb
Data send as *logger*	GPRS with protocols MQTT or FTP or GSM with SMS
Power supply	Internal 3.6Vcc (lithium battery)
	External 7.2 - 28 Vcc
Stand-by power consumption	Less than 4mW
Analogic inputs max	N. 3 (4-20mA /0-5V) resolution 12bit
Digital inputs max	N. 3 (with counter function)
Digital outputs	N. 1 (max 200mA)
Interface	USB for setting and data downloading
Operating temperature	-10 - 50 °C
Storage temperature	-20 - 60 °C
Container	PVC diameter 100mm, high 200mm, IP68
Weight	1500g with internal battery