Pietro Fiorentini

AQUALOG DIANA

AQUALOG is a **datalogger designed for permanent monitoring of water hammer** in water infrastructures thanks to high-frequency sampling up to 200 Hz. Designed to operate in a very low power consumption conditions, it has an integrated GPS module, which allows for precise geolocation of the device and automatic clock synchronisation, ensuring always reliable data with timestamps aligned with GPS time.
The device is equipped with a **dedicated software module, which allows the geographical visualization of devices** on the territory, the graphical analysis of pressure trends with evaluation of recorded phenomena and alarm management.

Pumping stations

Water pressure and flow monitoring systems

Industrial water users

Features	Values
Analogue inputs (AI)	1 mV input for piezoresistive pressure/level sensor
Power supply	- Internal with 2-cell lithium battery pack – 2 years life in standard mode * - External (optional) via DC/DC 9-36 Vdc. Source: power grid, solar panel, micro-turbine.
Communication vector	2G/3G/4G
Interface	Bluetooth
Registration No.	MODBUS, IEC 60870-5-104
Antennas	External
Connectors	Metal cable glands
Synchronization and geolocation	Via GPS Module
Protection rating IP	IP 68 (immersion for 100 days at a depth of 1 metre)
Environmental conditions	from -25°C to + 60°C
Dimensions and weight	115x210x58 mm / 1 kg
NOTE (*): Standard mode: 1 piezoresistive sensor, 1 data transmission per day, 3 GPS synchronizations	

Table 1 Features

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Materials and **Approvals**

Features	Values
Body	Fibreglass
Connectors	Cable glands AISI 303 stainless steel
Clamping screws	AISI 304 stainless steel

Table 2 Features and values

AQUALOG DIANA is CE marked and complies with Directives 2014/53/EU (RED) and 2014/30/EU (Electromagnetic Compatibility).

RED

EMC

AQUALOG SMART competitive advantages

- Discovery mode with 200Hz sampling rate
- GPS module for geolocation and clock synchronization
- Software module dedicated to display of detected water hammers
- Local/remote configuration
- Local/remote firmware update
- Real-time supervision
- Step test investigations

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