

AQUALOG AW

AQUALOG AW is a latest-generation RTU designed for the advanced monitoring and control of water distribution systems. Available in a version with an internal lithium battery or with an external power supply kit, it offers maximum installation flexibility.

Thanks to its versatility, **AQUALOG AW supports a wide range of sensors** for measuring fundamental parameters such as pressure, temperature, level and water quality.

The device allows the control of PRV valves with different regulation modes, optimising pressure management within district metering areas.



Water reservoirs



Water pressure and flow monitoring systems



District metering areas



Pumping stations



PRV control valves



Water quality samplers



Flow meters

Features	Values
Analogue inputs (AI)	3 mV inputs for piezoresistive pressure/level sensors 8 4-20mA level inputs (active or passive) for pressure, flow rate, 2 inputs for temperature sensors PT1000/PT100
Digital inputs (DI)	10 inputs configurable as status variables or counters, 6 of which can be configured for flow rate calculation
Digital outputs (DO)	4 open collector outputs for PRV regulation (dedicated power supply)
Serial inputs	1 RS485 port
Power supply	- Internal with 4 or 7 cell lithium battery pack – 5 or 10 year life in standard mode* - External via DC/DC 9-36 Vdc. Source: power grid, solar panel, microturbine.
Communication vector	2G/3G/4G, 868 MHz LoRaWAN (optional), NB-IoT (optional)
Interface	Bluetooth, Wi-Fi, USB mini B port (optional)
Registration No.	MODBUS, IEC 60870-5-104, LoRaWAN, MQTT
Antenna	Internal integrated, external optional
Connectors	Cable glands with O-ring or single MIL connector (optional)
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	260x170x100 mm / 2 kg

Table 1 Features

Materials and Approvals

Features	Values
Body	Polycarbonate
Connectors	Polyamide cable glands with O-ring Single MIL connector in AISI 316L stainless steel
Clamping screws	AISI 304 stainless steel

Table 2 Features and values

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



RED



EMC

AQUALOG AW competitive advantages



Hydraulic valve adjustment according to 6 modes



Pump regulation



Real-time supervision



Integrations with SCADA and WMS systems



Local/remote configuration



Alarms triggered by exceeding thresholds and/or reaching physical/logical states



Periodic, scheduled or event-related communication



LCD display