

AFLOWT BUF

BATTERY-OPERATED ULTRASONIC
FLOW METER



AFLOWT 

Flow
Measurement
Equipment

- Independent of power failure and power-off;
- Independent of water pollution level (filters not required);
- No pressure loss in pipeline;
- High stability of measurement;
- Electronic unit positioned directly on spoolpiece;
- LCD on/off button for battery charge saving;
- Suitable for direct burying and constant flooding;
- Easy commissioning;
- OIML certified, MID certificate DE-12-MI001-PTB002;
- Positive experience of operations as a part of irrigation systems in Konya region.

Application:

- residential water consumption metering (cold and hot tap water);
- water consumption metering at industrial enterprises;
- water metering at pipeline control points;
- irrigation;
- compatible with a prepayment water consumption system;
- electronic processing unit and ultrasonic transducers can be supplied separately in order to be integrated with the prepayment water consumption system.

Technical characteristics:

Parameter	Value
Pipe size, DN, mm	32 ÷ 300
Accuracy, %W	from 2
Flow velocity range, m/s	0.04÷5
Fluid temperature range, °C	0 ÷ 90
Ambient temperature for transmitter, °C	5 ÷ 65
Maximum pipeline pressure, MPa	1.6 (2.5 on request)
Protection	IP67; IP68
Measurement data logging, number of records:	
- hourly log	1440
- daily log	460
- monthly log	48
Lithium battery life, yrs.	10

Outputs:

- LCD;
- 1 universal output;
- RS-485 interface (Modbus);
- MBus.

Functions:

- Measuring average volumetric flow rate in either forward or reverse flow directions
- Totalizing volume of forward and reverse flows independently or calculating their algebraic sum with regard to flow direction
- Determining the current value of flow velocity and flow direction
- Outputting measurement results to the frequency/pulse or logical output
- Logging of measurement data and configuration settings in the internal nonvolatile memory
- Displaying measurement, configuration and history (logged) data on the built-in indicator (LCD) and outputting the data to the external devices via M-BUS interface or RS-485 interface
- Configuring the flow meter according to on-site and process requirements
- Monitoring and indicating alarm conditions (ER, error situations) and faults; recording error and fault types and intervals into the corresponding logs
- Protecting logged data and configuration settings from unauthorized access.