

FLOW 45

Battery powered flow meter

This battery powered flow meter was developed for placing in spaces without supply voltages and it is ideal to be fitted in main pipelines, drainage or various sewage conduits. The flow meter is excellent in high accuracy within full-scale flow rate. Its construction corresponds to overall flow meter IP67 degree of protection and prior to every measurement, automated diagnosis of all functions and parts necessary for correct measurement is carried out. Based on the results, the flow meter is able to identify empty pipes and invalidate the entire measurement, or conversely, the meter can evaluate the flow direction and include the results in relevant summary registers. Battery discharging is directly dependent on selected measurement period; for a 10 sec period, the service life is 5 years. The flow meter is equipped with an LCD display activated by pressing the button.



MAIN MERITS

- Internal lithium battery power
- Nearly maintenance-free operation
- Simple and trouble-free installation and operation
- No pressure losses
- 350° rotatable display for comfortable reading

Power	internal lithium battery
Measurement period	1÷60 s
Design	compact (Tmax 90 °C), separated (standard 3 m cable)
DN range	DN 15÷200
Lining material	rubber (hard, soft, with potable water test certificate), PTFE, PFA, ceramics, PEAK, PVDF
Electrode material	CrNi steel DIN 1.4571, Hastelloy C4, Titan, Tantalum, Platinum
Sensor material	stainless steel and structural steel with polyurethane coating
Process connection	sandwich, flanged DIN (EN1092), threaded (EN1092), food grade (DIN 11851 fitting, clamp)
Maximum fluid temperature	170 °C (according to lining)
Measured fluid min. conductivity	20 µS (at a lower conductivity, upon agreement with the manufacturer)
Pressure	PN10, PN16, PN25, PN40
Flow meter accuracy	up to 1 %
Outputs	pulses (passive)
Flow sensor degree of protection	IP65, IP67, IP68
Electrode degree of protection	IP67