

BULFRO

IP68 FLOW METER

Bulfro Compact Electromagnetic Flow Meter

Battery-Operated, Telemetry-Enabled Flow Measurement — Water e-Governance Product

The Bulfro Compact Electromagnetic Flow Meter is a robust solution engineered for highly accurate water flow measurement in challenging environments. Featuring a full IP68-rated flow tube for complete dust and water protection, this meter delivers reliable performance even when fully submerged.

Battery-operated and telemetry-enabled, the unit is designed for continuous, unattended field deployment as part of Bulfro's water e-Governance product line.



WHY CHOOSE BULFRO IP68 FLOW METER?

- **IP68 Rugged Protection** – Fully dustproof and submersible for reliable operation in harsh outdoor and underground installations.
- **Accurate & Reliable Flow Measurement** – Electromagnetic technology with no moving parts ensures precise, long-lasting performance.
- **Smart IoT-Ready Solution** – Multiple output options with telemetry support for real-time monitoring and seamless system integration.

KEY FEATURES

- **IP68 Protection Class** - Fully dust-tight and submersible; ideal for underground, flooded chambers, or outdoor installations.
- **High Accuracy** - Standard accuracy of $\pm 1.0\%$ of reading; optionally available with $\pm 0.5\%$ for precision-critical applications.
- **No Moving Parts** - Electromagnetic technology ensures minimal wear and long service life.
- **Multiple Output Options** - 4–20 mA isolated analog output, pulse output, RS485/RS232 (Modbus) relay output, optional GSM/GPRS for remote telemetry.
- **Wide Operating Range** - Fluid temperature up to 180°C (depending on liner); pressure rating $\geq 10 \text{ kg/cm}^2$; flow velocity 1–10 m/s.
- **Chemical Compatibility**
Handles fluids with a pH range of 0–14; suitable for corrosive and industrial applications.
- **Power Supply Options** - Operates on 230V AC / 24V DC / battery + solar-based setups (customizable).
- **Smart Display Unit** - Backlit LCD/LED display with totalizer, flow rate, diagnostics, and password-protected settings.
- **Low Maintenance Design** - Self-cleaning, non-intrusive sensing with minimal calibration requirements.
- **Application Versatility** - Water distribution networks, irrigation and agriculture, wastewater & sewage monitoring, industrial process lines, telemetry-integrated smart city systems



IP-68 FLOW METER — TECHNICAL PARAMETERS

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Performance	Parameters
Measurement Range Ratio	63:1
Working Pressure	<1.6 Mpa
Temperature	T30
Working Environment	-25°C to 55°C, IP68 Protection
Pressure Loss	ΔP 10
Power Consumption	<0.1 Mw
Power Supply	3.6V 4Ah lithium battery

SERVICES

- **Product and Solution Sales** - End-to-end supply of the flow measurement unit and supporting IoT solution.
- **Installation** - In-line mounting, commissioning, and display setup by trained technicians.
- **Data Management and Security** - Secure telemetry data handling and cloud access.
- **Maintenance and Services** - Scheduled upkeep of the flow tube, sensor, and display unit.
- **Water Legal Compliance** - Deployment aligned with applicable metering and reporting standards.

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