

BULFRO PADDLE-TYPE FLOW METER SYSTEM

Paddle Wheel Insertion Flow Measurement & IoT Telemetry

The Bulfro BMFM-PSS-21 Paddle-Type Flow Meter is a technologically advanced solution for accurate water measurement, supporting sustainability and e-Governance initiatives. Its paddle-wheel insertion design enables precise flow-rate measurement in water distribution systems, aiding sustainable water management through a reliable, technology-driven approach.



Digital display unit



Paddle type flow meter.

WHY CHOOSE BULFRO PADDLE-TYPE FLOW METER?

- **Accurate Flow Measurement** - Delivers reliable flow monitoring with **±2% accuracy** across a wide flow range.
- **Durable Industrial Design** - Rugged, compact construction built for long-term operation in demanding environments.
- **Efficient & Cost-Effective Monitoring** - Paddle-wheel insertion design enables easy installation with dependable performance.

KEY FEATURES

- **Paddle Wheel Insertion Design** - Ensures accurate measurement of flow rates across various fluid types.
- **Faraday's Law of Electromagnetic Induction** - Generates a frequency and signal proportional to flow, ensuring precise measurements.
- **Robust & Compact Housing** - Built for durability and reliability across diverse operating environments.
- **Wide Flow Velocity Range** - Measures flow velocities from 0.5 m/sec to 5 m/sec, suiting a broad range of applications.
- **Ideal for High Reynolds Numbers** - Delivers excellent, reliable results for flows with Reynolds numbers greater than 5000.

MATERIAL OF CONSTRUCTION (MOC)

Grade	Body	Paddle	Pin	O-Ring
Standard	PP	Delryn / PVDF	Hard Steel	Silicon / Viton
Optional	SS 316	PVDF / SS	Hard Steel	PTFE

TECHNICAL SPECIFICATIONS

Parameter	Value
Flow Rate Range	0.5 m/sec to 5 m/sec
Accuracy	±2% of full-scale deflection
Output Voltage	Square wave (sinking), 12–24 VDC max.
Signal Amplitude	15–17.5 Hz/meter/second
Cable Length	0.5 m for field type; 5 m for panel type
Protection Rating	IP-65
Operating Temperature (PP sensor)	Up to 50 °C
Operating Temperature (PVDF / SS sensor)	Up to 80 °C (optional 125 °C)
Operating Pressure (plastic body)	Up to 5 kg
Operating Pressure (metal body)	0 to 20 kg

SERVICES

- **Installation** - In-line insertion mounting, commissioning, and display setup.
- **Data Management & Security** - Secure telemetry data handling and cloud access.
- **Maintenance** - Scheduled upkeep of the paddle sensor, cable, and display unit.
- **Legal Compliance** - Deployment aligned with applicable metering and reporting standards.

GET IN TOUCH

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