

EPD2 Compact Electromagnetic Flow Meter



SPECIFICATIONS

Power supply	18~36VDC
Fluid conductivity	> 2 uS/cm
Lining material	PEEK
Nominal diameter	DN6 ~ DN65
Operating pressure	-1 ~ 16kg/cm ²
Ambient temperature	-25~75°C
Operating temperature	Standard:-40~90°C
Accuracy	Flow:±0.5%、Temp.:±0.5°C Pressure:±0.08kg/cm ²
Electrode material	SUS316L
Body material	SUS304
Connection type	Tri-Clamp
Pressure range	0~16kg/cm ²
Temperature range	-40~120°C
Output signal	4~20mA (Max. Load:500Ω)
Communication	RS-485、IO-Link
Turndown ratio	1:150
Electrical connection	M12-4-pin Connector
Power consumption	<5W
Protection rating (IP)	IP67

INTRODUCTION

The Electromagnetic Flowmeter is a high-precision flow measurement instrument manufactured using the latest international technology. It is widely used in industries such as papermaking, chemical processing, power generation, metallurgy, water supply and drainage, wastewater treatment, high-pressure liquid metering, pharmaceuticals, food processing, and environmental protection.

It is designed to measure the flow rate of conductive, non-magnetic liquids and slurries in closed pipelines.

Key Highlights

- **Ultra-Compact Design**
Featuring an innovative zero straight-pipe-run installation, it is ideal for high-density piping layouts and AI liquid cooling systems.
- **Three Functions in One**
Simultaneously and accurately measures flow rate, temperature, and pressure, eliminating the need for multiple instruments.
- **Smart Configuration**
The display automatically rotates 90° for optimal viewing and supports IO-Link and Bluetooth for remote parameter configuration.
- **Exceptional Durability**
The one-piece PEEK injection-molded lining provides superior resistance to demanding conditions, while built-in self-diagnostic functions ensure reliable operation even under negative-pressure environments.

FEATURES

On-Site: Simplified Installation and Maintenance

No Straight Pipe Requirement

Eliminates the need for straight pipe sections, saving installation space and significantly reducing construction costs.

90° Automatic Display Rotation

The color LCD automatically rotates according to the installation angle, providing clear readability in both horizontal and vertical mounting orientations.

Active Self-Diagnostics

Continuously monitors empty pipe conditions, electrode contamination, and excitation abnormalities to prevent unexpected shutdowns.

System Integration: Seamless Communication

Multiple Communication Support

Fully supports RS-485, IO-Link, 4~20 mA, and digital input/output (DI/DO) interfaces for flexible system integration.

Non-Contact Configuration

Parameters can be quickly configured via Bluetooth, infrared remote control, or IO-Link, providing convenient and efficient operation.

Measurement Core: Stability and High Accuracy

Industrial-Grade Processing Core

Equipped with high-resolution signal processing technology to ensure accurate and stable measurement even under complex operating conditions.

Multi-Parameter Measurement in One Device

Simultaneously measures and outputs flow rate, temperature, and pressure with fast response time and low power consumption.

High Interference Resistance and Negative Pressure Protection

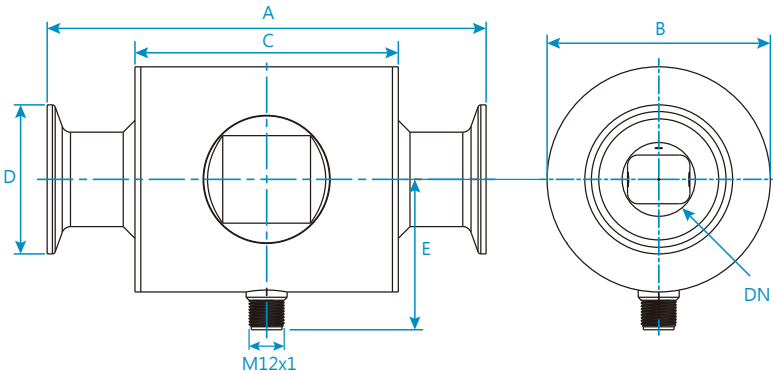
The electrodes and PEEK lining are integrally injection-molded, ensuring measurement stability unaffected by fluid density or temperature variations. It also maintains reliable operation under negative-pressure conditions.

APPLICATION

- Municipal Water Treatment
- Seawater Desalination Systems
- AI Cooling Systems
- Food Manufacturing Industry
- Pharmaceutical Machinery
- PCB Wet Process
- Steel Industry
- HVAC (Heating, Ventilation, and Air Conditioning)

DIMENSIONS

(Unit: mm)



DN	A	B	C	D	E
6	150	70	90	50.5	48
10	150	70	90	50.5	48
15	150	70	90	50.5	48
20	150	70	90	50.5	48
25	150	76	90	50.5	51
32	150	76	100	50.5	51
40	200	89	100	64	57.5
50	200	95	100	77.5	60.5
65	200	95	100	91	60.5

ORDER INFORMATION

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⁰⁸⁰⁹¹⁰ Nominal Diameter

- 006: 6mm
- 010: 10mm
- 015: 15mm
- 020: 20mm
- 025: 25mm
- 032: 32mm
- 040: 40mm
- 050: 50mm
- 065: 65mm



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