

EPD2 Compact Electromagnetic Flow Meter



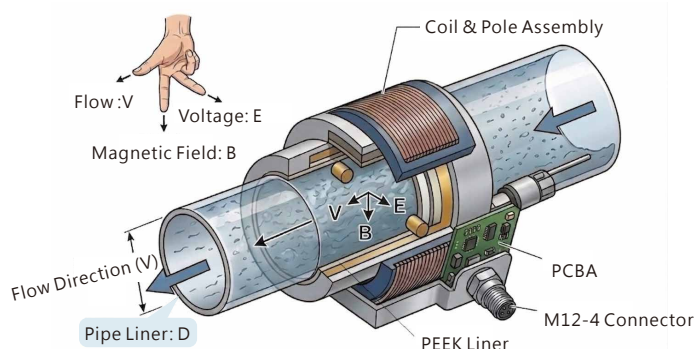
SPECIFICATIONS

Specifications	Standard type	High temp. type
Power supply	18~36VDC	
Fluid conductivity	> 2 uS/cm	
Lining material	PEEK	
Nominal diameter	DN6 ~ DN65	DN6 ~ DN200
Operating pressure	-1 ~ 16kg/cm ²	
Ambient temp.	-25~75°C	
Operating temp.	-40~90°C	-40~125°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.

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)

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.

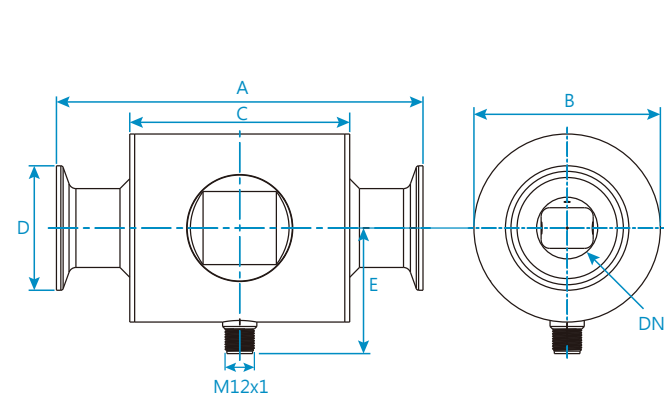
High Interference Resistance and Negative Pressure Protection

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.

DIMENSIONS

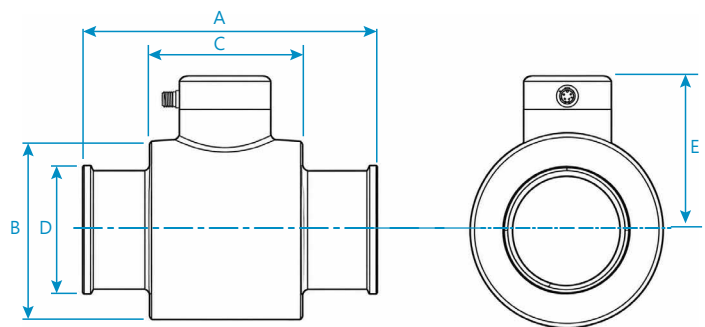
(Unit: mm)

Standard type



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

High temperature type



DN	A	B	C	D	E
6	150	76	90	50.5	85
10	150	76	90	50.5	85
15	150	76	90	50.5	85
20	150	76	90	50.5	85
25	150	76	90	50.5	85
32	150	76	90	50.5	85
40	200	89	100	64	92
50	200	102	100	77.5	98
65	200	102	100	91	98
80	200	178	100	106	145
100	250	178	130	119	145
125	250	220	114	155	164
150	300	245	154	183	170
200	350	300	200	233.5	197

FLOW & VELOCITY RANGE

Standard type

DN Size	Flow range	Velocity range
DN6	0.01~0.75M ³ /H	0.1~7.36 M/S
	0.17~13L/min	
DN10	0.02~1.5M ³ /H	0.07~5.3 M/S
	0.33~25L/min	
DN15	0.035~5M ³ /H	0.05~7.85 M/S
	0.58~83L/min	
DN20	0.04~6M ³ /H	0.03~5.3 M/S
	0.67~100L/min	
DN25	0.1~15M ³ /H	0.05~8.48 M/S
	1.67~250L/min	
DN32	0.15~20M ³ /H	0.05~6.9 M/S
	2.50~333L/min	
DN40	0.25~38M ³ /H	0.05~8.39 M/S
	4.17~633L/min	
DN50	0.4~60M ³ /H	0.05~8.48 M/S
	6.67~1000L/min	
DN65	0.5~75M ³ /H	0.04~6.27 M/S
	8.33~1250L/min	

High temperature type

DN Size	Flow range	Velocity range
DN6	0.01~0.75M ³ /H	0.1~7.36 M/S
	0.17~13L/min	
DN10	0.02~1.5M ³ /H	0.07~5.3 M/S
	0.33~25L/min	
DN15	0.035~5M ³ /H	0.05~7.85 M/S
	0.58~83L/min	
DN20	0.04~6M ³ /H	0.03~5.3 M/S
	0.67~100L/min	
DN25	0.1~15M ³ /H	0.05~8.48 M/S
	1.67~250L/min	
DN32	0.15~20M ³ /H	0.05~6.9 M/S
	2.50~333L/min	
DN40	0.25~38M ³ /H	0.05~8.39 M/S
	4.17~633L/min	
DN50	0.4~60M ³ /H	0.05~8.48 M/S
	6.67~1000L/min	
DN65	0.5~75M ³ /H	0.04~6.27 M/S
	8.33~1250L/min	
DN80	3.6~180.9M ³ /H	0.198~9.99 M/S
	60~3015 L/min	
DN100	6~283M ³ /H	0.212~10.0 M/S
	100~4716.66 L/min	
DN125	8~442M ³ /H	0.18~10 M/S
	133.33~7366.66 L/min	
DN150	12~636M ³ /H	0.188~9.99 M/S
	200~10600 L/min	
DN200	22~1130M ³ /H	0.194~9.99 M/S
	366.66~18833.3L/min	

ORDER INFORMATION

EPD 2 ⁰⁵ A - 00 ⁰⁹ ¹⁰ ¹¹ I 00 A 0

⁰⁵ Model

2: Standard type (DN6-65)

6: High temperature type (DN6-200)

⁰⁶ ⁰⁷ ⁰⁸ Nominal Diameter

006: 6mm 032: 32mm 100: 100mm

010: 10mm 040: 40mm 125: 125mm

015: 15mm 050: 50mm 150: 150mm

020: 20mm 065: 65mm 200: 200mm

025: 25mm 080: 80mm



No.16, Tzuchiang St., Tucheng, District New Taipei City, Taiwan.
 TEL : 886 2 22696789 | FAX : 886 2 22686682 | <http://www.fine-tek.com>
 Email: info@fine-tek.com

