

APPLICATION INDUSTRIES



Water Conservancy & Water Affairs



Petrochemicals



Environmental Water Treatment



Heating/Building Automation



Renewable Energy



Food & Pharmaceuticals



Paper Making



Metallurgy

Your Partner of Sensing and Measuring



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Official Web

MICROSENSOR

FLOW METER

For Process Industry



INTRODUCTION

Flow measurement is crucial in industrial monitoring and control, and the Micro Sensor's flowmeter allows for the flow measurement of liquid, gas, and vapor across various applications. The product series include inline electromagnetic flowmeters, insertion electromagnetic flowmeters, electromagnetic energy meters, ultrasonic flowmeters, vortex/turbine flowmeters, mass flowmeters, differential pressure flowmeters, and open channel flowmeters.

They are widely used in petrochemicals, water conservancy and water affairs, industrial control, municipal fire protection, smart cities, aerospace and navigation, food and pharmaceuticals. Micro Sensor is committed to providing various industries with high-accuracy, reliable, and stable flowmeters and solutions.

Manufacturing Bases

Shaanxi Baoji Flowmeter Industrial Park



33000 m<sup>2</sup>  
Floor Area

11000 m<sup>2</sup>  
Production Area

60000+ Units  
Annual Capacity

## ADVANTAGES



### Self-Developed Core Technology

Sensor electrode encapsulation patent  
self-developed converter



### Development of Group Standards

Participation in CIDA group standards  
development  
such as "open channel flow monitoring"



### High-Quality Product Delivery

Self-designed, developed and manufactured  
full process control  
guaranteed quality and delivery



### Customized Solutions

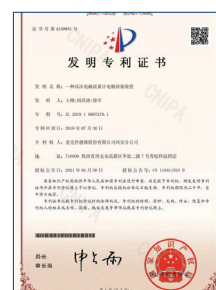
Different principles, materials, and  
linings available based  
on operating conditions



### 24/7 Customer Service

Professional pre-sales, sales, and after-sales service team  
24/7 rapid response

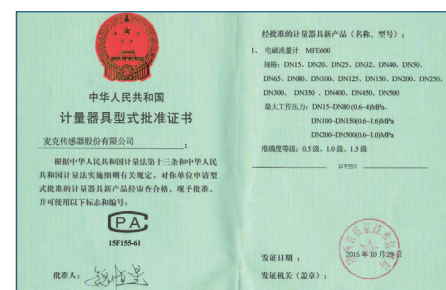
## CERTIFICATES



Sensor Encapsulation  
Invention Patent



Converter Software  
Copyright



Type Approval Certificate



CCS Certificate



IP68 Report



Salt Spray  
Test Report



Microbiological  
Test Report



CE Certificate



Explosion-Proof  
Certificate

## PRODUCT SERIES

Name	MFE600E Smart Electromagnetic Flowmeter	MFE600C Insertion Electromagnetic Flowmeter	MFE600H Electromagnetic Heat Meter
Figure			
Measuring Medium	Liquid with Conductivity ≥ 5µs/cm Pressure Ports (Optional)	Liquid with Conductivity ≥ 5µs/cm	Liquid with Conductivity ≥ 5µs/cm
Measuring Accuracy	±0.5%, ±0.2%	±2.5%	Level 2 Temperature Sensor: ±1%
Diameter/Range	DN3 ~ DN2000, Built-In Grounding Electrode above DN20	DN200 ~ DN1600	DN25 ~ DN400
Construction Type	Integral, Remote		
Installation Methods	Flange-Mounted, Flange-Clamped, Thread-Mounted, Clamp-On	Insertion	Flange-Mounted (Electromagnetic Heat Meter) Sleeve (Temperature Sensor)
Electrode Materials	SS (316L), Titanium (Ti), Hastelloy (HC, HB), Tantalum (Ta), Tungsten Carbide (WC), platinum Iridium (Pt)	SS (316L), Titanium (Ti)	SS (316L), Titanium (Ti), Hastelloy (HC, HB), Tantalum (Ta), Tungsten Carbide (WC), platinum Iridium (Pt)
Lining Materials	CR, NR, PUR, PTFE, F46, PFA	CR, PUR, F4, F46 Sensor Material: ABS	CR, NR, PUR, PTFE, F46, PFA
Body Materials	CS, SS (304, 316, 316L)	Head Material: Aluminum Alloy Die-Casting	/
Medium Temperature	-20°C ~ 150°C		-50°C ~ 200°C
Ambient Temperature	-20°C ~ 60°C		-10°C ~ 150°C
Power Supply	100 ~ 240V AC, 12V DC, 24V DC, Battery, Solar Energy		220V AC, 24VDC
Signal Output	4 ~ 20mA DC, 1-5V, Frequency/Pulse, Relay Output, RS485/RS232 (Standard ModBus Protocol), Hart, Profibus-DP		4 ~ 20mA DC, Frequency/Pulse, RS485/RS232 (Standard ModBus Protocol)
Electrical Port	M20×1.5, NPT1/2		M20×1.5
IP Rating	IP65, IP67, IP68 (Remote Type ~ Sensor Part)		IP65

## PRODUCT SERIES

Name	MFU2000 Ultrasonic Flowmeter	LUGB Vortex Flowmeter	LVGY Turbine Flowmeter
Figure			
Measuring Medium	Single Homogeneous Liquid (Ultrasonically Conductive)	Gas, Liquid, Vapor	No Impurities, Low Viscosity, No Highly Corrosive Liquid
Measuring Accuracy	±1%	±1.0%, ±1.5%	±1%R, ±0.5%R
Diameter/Range	DN15 ~ DN1500	DN15 ~ DN1000	DN4 ~ DN200
Installation Methods	Clamp-On, Insertion, Inline	Flange-Mounted, Insertion, Thread-Mounted	Flange-Mounted, Thread-Mounted, Clamp-On, Flange-Clamped
Body Materials	/	SS (304)	/
Medium Temperature	Normal temperature: -30°C ~ 90°C High temperature: -30°C ~ 160°C	Normal temperature: -40°C ~ 80°C Medium temperature: -40°C ~ 280°C High temperature: -40°C ~ 350°C	Normal temperature: -20°C ~ 80°C High temperature: -20°C ~ 120°C
Medium Pressure	/	≤ 40bar	≤ 420bar
Ambient Temperature	Main Unit: -20°C ~ 60°C Sensor: -30°C ~ 160°C	Non Explosion-Proof Area: -40°C ~ 55°C Explosion-Proof Area: -20°C ~ 55°C	-20°C ~ 60°C
Power Supply	8V~36V DC (Optional) or 85V ~ 264V AC (Optional)	24V DC, 3.6V Lithium Battery (1.2Ah, Normal Operation for about 2 Years)	/
Signal Output	4 ~ 20mA DC, RS485 (Standard ModBus Protocol)	4 ~ 20mA DC, 1-5V, Pulse, RS485 (Standard ModBus Protocol), Hart	/
Signal Input	Connect to 3-wire Temperature Sensor Heat Measurement	/	/
Explosion-Proof Grade	/	Explosion-proof: Exd II CT6Gb	
Flow Rate	(0 ~ ±10)m/s	Liquid: 0.7m/s ~ 7m/s Gas: 5m/s ~ 70m/s Vapor: 4m/s ~ 70m/s	/
IP Rating	Sensor: IP68 (Afer Gluing) Converter: IP65	/	/

## PRODUCT SERIES

Name	MFC608 Coriolis Mass Flowmeter	MFP6812 Differential Pressure Flowmeter	MFM500A Flow Switch
Figure			
Construction Type	/	Orifice Plate, Venturi, Wedge, V-Cone, Nozzle	/
Measuring Accuracy	0.5%, 0.2%, 0.15%	1.5%	/
Repeatability	0.25% (Default), 0.1%, 0.075%	/	/
Temperature Accuracy	±1°C	/	/
Diameter/Range	DN4 ~ DN300	DN20 ~ DN2400	1 ~ 150cm/s (Water) 3 ~ 300cm/s (Oil)
Construction Materials	Transmitter Housing: Aluminum Alloy (ZL401) Sensor: SS (304) Measuring tube: SS (316L)	Throttle: CS, SS Flange: CS, SS	Case: SS (304) Sensor Probe: SS (316L), Titanium (Ti)
Medium Temperature	/	/	-20°C ~ 80°C
Medium Pressure	≤ 40bar	≤ 100bar Transmitter Rated Pressure ≤ 400bar	≤ 100bar
Output Signal	4 ~ 20mA DC, Pulse, RS485 (Standard ModBus Protocol)	4 ~ 20mA DC, RS485 (Standard ModBus Protocol)	Relay Output, PNP, NPN
IP Rating	IP67	IP67	IP67
Operating Temperature	-196°C ~ 85°C	-50°C ~ 550°C	-10°C ~ 70°C
Power Supply	24V DC, 24V AC	24V DC, 220V AC	24V DC
Flow Display	/	/	6 LEDs
Current Consumption	/	/	< 90mA