HIKMICRO

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ELECTROMAGNETIC FLOW METER



HIKMICRO FE0 series electromagnetic flow meter works based on Faraday's law of electromagnetic induction for measuring the flow rate of liquids. It is widely used in industries such as water management, chemical, medicine, life sciences, pulp & paper, food & beverages.

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Benefits

- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Good corrosion resistance and abrasion resistance with multiple selection of lining and electrodes
- High accurate measurement, reaching ±0.3% of the indicated value
- The transmitters are interchangeable and accuracy can be achieved without recalibration of the actual flow
- Wide measuring range, up to 1000:1
- High input impedance of the converter (>10^{12} Ω), suitable for measuring low conductivity media ≥ 1μS/cm
- Supports flow rate measurement from 0.01 to 12 m/s
- Flexible sensor & transmitter styles to ensure compatibility in various application

Electromagnetic Flow Meter				
				
Series	FE00	FE01	FE02	FE03
	Standard Process	Low Conductivity Process	Micro Flow Process	Slurry Process
Connection	Flanged, Wafer (flangeless), Hygienic	Flanged, Wafer (flangeless), Hygienic	Flanged, Hygienic	Flanged, Wafer (flangeless)
Transmitter Structure Type	Integral Mount, Remote Mount			
Basic Error	0.3% or 0.5%	0.5%	0.5%±1mm/s(0.01-0.3m/s)	0.5%
Repeatability	≤±0.1% (Accuracy: 0.3%) or ±0.16% (Accuracy: 0.5%)	±0.16%	±0.16%	±0.16%
Diameter	DN10~DN1200	DN10~DN500	DN10~DN40	DN10~DN1200
Electrode Materials	316L Stainless Steel, Hastelloy C, Titanium, Tantalum, Tungsten Carbide, Platinum-Iridium Alloy			
Grounding Method	Grounding Electrode, 304 Grounding Ring, 304 Grounding Ring with Neck, 316L Grounding Ring, HC Grounding Ring, Ti Grounding Ring, Ta Grounding Ring			
Lining Material	FEP, PTFE, PU, PFA			
Conductivity	≥ 5μS/cm	≥ 1μS/cm	≥ 5μS/cm	≥ 5μS/cm
Measuring Range Flow Rate	0.5~12m/s	0.5~12m/s	0.01~12m/s	1~12m/s
Protection Rating	IP65, IP67, IP68			
Ambient Temperature Range	-25 ℃~55 ℃			
Output Signal	4~20mA + Pulse + MODBUS ; 4~20 mA + Pulse + MODBUS + HART (4mA~20mA analog output is active output)			
Power Supply	DC 24V (-15%~+20%); AC 220V (-15%~+10%), 47~63Hz			
Ambient Temperature Influence	<±0.15%/10 ℃ (Accuracy: 0.3%) or <±0.25%/10 ℃ (Accuracy: 0.5%)	<±0.25%/10 ℃	<±0.25%/10 ℃	<±0.25%/10 ℃
Analog Output Error	≤± 0.016mA			