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~DN600	DN10~DN40	DN10~DN600
Electrode Materials	316L Stainless Steel, Hastelloy C, Titanium, Tantalum, Tungsten Carbide, Platinum-Iridium Alloy			
Grounding Method	Dielectric Grounding, Double Electrode; Standard 304 Grounding Ring; 304 Grounding Ring with Neck; Grounding Electrode, Three Electrodes; Standard Hc Grounding Ring; Standard Ti Grounding Ring; Standard Ta Grounding Ring			
Lining Material	Neoprene (Ne) , FEP , PTFE , PU , PFA	FEP , PTFE , PFA	Neoprene (Ne) , FEP , PTFE , PU , PFA	Neoprene (Ne) , FEP , PTFE , PU , PFA
Conductivity	≥ 5μS/cm (negotiate with our company for order below 5μS/cm)	≥ 1μS/cm	≥ 5μS/cm (negotiate with our company for order below 5μS/cm)	≥ 5μS/cm (negotiate with our company for order below 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			