EFM30 Electromagnetic Flowmeter

Principle

Electromagnetic flowmeter works based on Faraday's law of electromagnetic induction and is used to measure the volume flow of conductive liquids. The EFM30 electromagnetic converter core uses a high-speed central processing unit, whose calculation speed is very fast. The sensor uses non-uniform magnetic field technology and a special magnetic circuit structure with stable and reliable magnetic field and reliable measurement performance.



Application

- It is often used to measure the volume flow of highly corrosive liquids such as water, sewage, strong acids and alkalis, and uniform liquid-solid two-phase suspension liquids such as mud, ore pulp, and paper pulp.

Technical Specification

Nominal diameter series DN (mm)	DN15-DN2000
Flange	Comply with JBT 81-2015 plate type flat weld steel pipe flange standard carbon steel (optional stainless steel flange), other standard flanges can be customized
Rated pressure (high pressure can be customized)	DN10-DN250, PN<1.6MPa DN300-DN1000, PN<1.0MPa DN1200-DN2000, PN<0.6MPa
Lining material	Neoprene (CR), Polyurethane rubber (UR), Polytetrafluoroethylene PTFE (F4), Polyperfluoroethylene propylene FEP (F46), Teflon (PFA)
Electrode material	Stainless steel 316L, Hastelloy (HB and HC), titanium, tantalum, platinum-iridium alloy
Accuracy	±0.5% measured value (flow rate ≥ 1m/s); ±0.5% measured value ±2mm/s (flow rate < 1m/s)
Repeatability	0.2%
Communication protocol	MODBUS RS-485
Output	Current (4-20mA), pulse, frequency
Function	Empty pipe identification, electrode contamination
Power supply	AC power：85-245VAC，50/60Hz;DC power：22VDC-26VDC
Protection level	Split type: Transmitter: IP65, Sensor body: IP68; Integrated type: IP65
Sensor Cable	Standard cable 10m; maximum length not exceeding 100m
Ambient temperature	Integrated flowmeter -10℃-55℃, Sensor part of split flowmeter -10℃-60℃ Converter part of split flowmeter -10℃-55℃
Storage temperature	-40℃-65℃

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