QTLD Mini Electromagnetic Flow Meter PHILEMON

DN3, DN6, DN10, DN15 / Thread



Description

The product is based on Faraday's law of electromagnetic induction, used to measure the conductance greater than 5 µs / cm volume of conductive liquid flow, In addition to measuring the general volume of conductive liquid flow, but also can be used to measure strong acid, alkali and other strong corrosive liquids and mud, pulp, pulp and other liquid-solid two-phase suspension of uniform volume flow.

Benefit

- Integrated vertification, diagnostic function and empty pipe detection.
- Measure forward and reverse direction flows.
- ♦ RS485 interface supporting up to 2km distance at 14400 bps communication
- Programmable low frequency square wave field excitation, improving measurement stability and reducing power consumption
- Implementing 'Rate-Of-Change Limit' technology to eliminate sharp electrical noise contained in the flow signal and stabilize the display and outputs
- Optional real-time clock, power-failure and history data logging function, storing up to 30 days measurement records



Standard Specification

Size : DN3, DN6, DN10, DN15 Ambient Temperature:-10~55°C : ±0.5% of reading Medium Temperature: -10 °C~60°C Accuracy Conductivity : Normal liquid >5 µs/cm, Velocity : 0.1 m/s ~ 15 m/s • Protection Grade : IP65 Communication : RS232 / RS485 MODBUS

• Electrode : SS316L, Hastelloy C, Titanium Nominal Pressure : 1.6 Mpa • Power Supply : AC85~250V, DC20V~36V • Language : English, Chinese

• Power Consumption :< 10W Other languages are available

Display : LC Display,128X128mm : Peek Material

: Inlet Path ≥ 5D Outlet Path ≥ 3D Three lines Straight Pipe

4 internal push button Signal Output : 4~20 mA,pulse Connection : 1/2 NPT,BSP Relative Humidity : 5%~95%

Electrode Property

ISS316L	Applicable in water, sewage and corrosive mediums. Widely used in industries of petrol, chemistry, carbamide, etc		
Hastelloy C	Be resistant to oxidable acid such as nitric acid,mixed acid as well as oxidable salt such as Fe+++,Cu++and sea water		
Titanium	Applicable in seawater, and kinds of chloride, hypochlorite salt, oxidable acid (including fuming nitric acid), organic acid, alkali etc. Not resistant to a pure reducing acid (such as sulphuric acid, hydrochloric acid) corrosion. Acid contains antioxidant (such as Fe+++, Cu++) will greatly reduce corrosion.		

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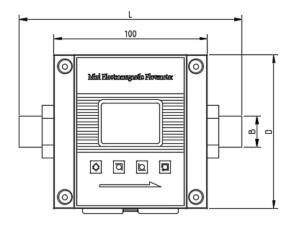
Dimension of Sensor and Converter

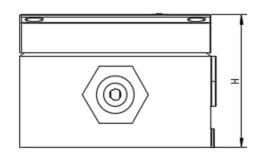
1. Structure

- 1. Connector 2. Shell 3. Excitation Coil 4. Pole Shoe
- 5. Magnet Yoke 6. Bracket Plate Assembly
- 7. Fixed Block 8. Measuring Tube 9. Electrode-assembly

2. Dimension of Sensor

Caliber	Nominal	Dimension			
(mm)	Pressure(MPa)	L	D	Н	В
3		135			G3/8"
6	0.6~1.6	145	100	70	G3/8"
10		145			G1/2"
15		155			G1/2"





3. Flow Range

DN (mm)	Flow Range	External Thread	
	Standard	Special	External Infeau
3	0.2~2	0.2~4	G3/8"
6	0.8~8	0.8~16	G3/8"
10	2~20	2~40	G1/2"
15	5~50	5~100	G1/2"



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