## **QTLD Mini Electromagnetic Flow Meter**

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 verification, 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 4 internal push button

 Accuracy : ±0.5% of reading  Relative Humidity : 5%~95%

: Normal liquid >5 µs/cm, Conductivity

Ambient Temperature:-10~55°C

 Protection Grade : IP65

• Medium Temperature: -10 °C~60°C

 Electrode : SS316L, Hastelloy C, Titanium Velocity : 0.1 m/s ~ 15 m/s

 Power Supply : AC85~250V, DC20V~36V  Communication : RS232 / RS485 MODBUS

• Power Consumption :< 10W

 Nominal Pressure : 1.6 Mpa

 Display : LCD Display,128X128mm

: English, Chinese Language

Three lines Other languages are available • Material : Peek • Signal Output : 4~20 mA,pulse

• Straight Pipe : Inlet Path ≥ 5D Outlet Path ≥ 3D • Connection : 1/2 NPT,BSP

### Electrode Property

SS316L	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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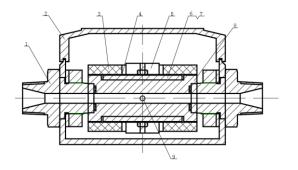
### Dimension of Sensor and Converter

### 1. Structure

1. Connector 2. Shell 3. Excitation Coil 4. Pole Shoe

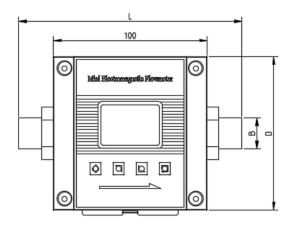
5. Magnet Yoke 6. Bracket Plate Assembly

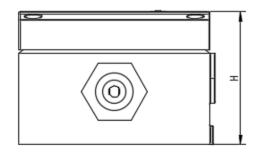
7. Fixed Block 8. Measuring Tube 9. Electrode-assembly



### 2. Dimension of Sensor

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





### 3. Flow Range

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