

QTL Mini Electromagnetic Flow Meter



DN3, DN6, DN15, DN20 / Thread

RST MEASUREMENT CONTROL TECHNOLOGIES

Description

The product is based on Faraday's law of electromagnetic induction, used to measure the conductance greater than 5 $\mu\text{S} / \text{cm}$ 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 | • Ambient Temperature: | -10~55°C |
| • Accuracy | : $\pm 0.5\%$ of reading | • Medium Temperature: | -10 °C~60°C |
| • Conductivity | : Normal liquid >5 $\mu\text{S}/\text{cm}$, | • Velocity | : 0.1 m/s ~ 15 m/s |
| • Protection Grade | : IP65 | • Communication | : RS232 / RS485 MODBUS |
| • Electrode | : SS316L | • Nominal Pressure | : 1.6 Mpa |
| • Power Supply | : AC85~250V, DC20V~36V | • Language | : English,Chinese
Other languages are available |
| • Power Consumption | : < 10W | • Material | : Peek |
| • Display | : LC Display,128X128mm
Three lines
4 internal push button | • Straight Pipe | : Inlet Path $\geq 5D$ Outlet Path $\geq 3D$ |
| • Relative Humidity | : 5%~95% | • Signal Output | : 4~20 mA,pulse |
| | | • Connection | : 1/2 NPT,BSP |

Electrode Property

SS316L	Applicable in water,sewage and corrosive mediums. Widely used in industries of petrol,chemistry,carbamide,etc
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QTLD Mini Electromagnetic Flow Meter

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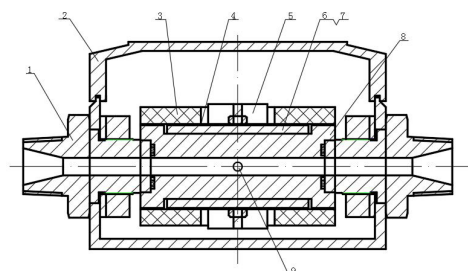
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Dimension of Sensor and Converter



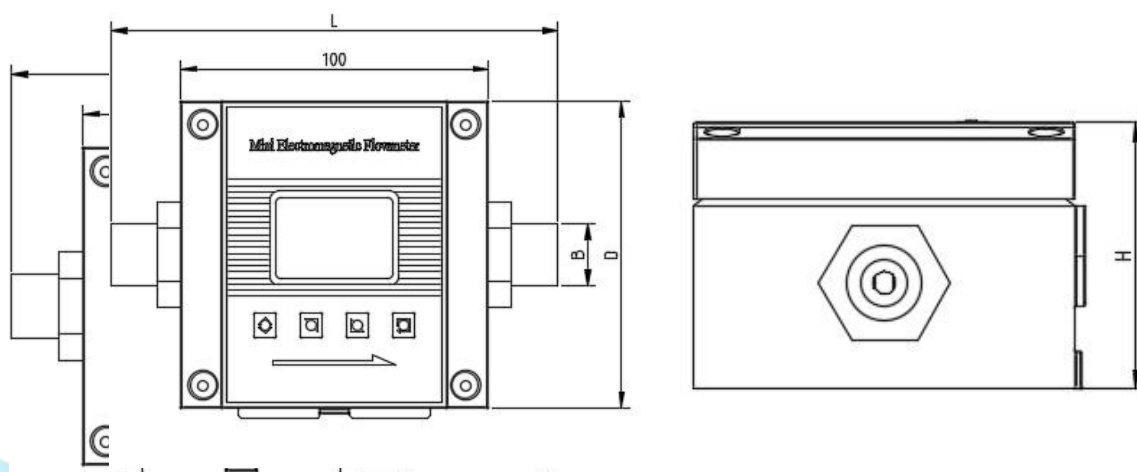
1. Structure

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 (mm)	Nominal Pressure (MPa)	Di			
		L	D	H	B
3		135			G1/2"
6		145			G1/2"
10		145			G1/2"
15		155			G1/2"



3. Flow range

DN (mm)	Flow Range (L/min)		External Thread
	Standard	Special	
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"



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4. Model selection:

For example: QTLD/M-DN3-316-DC. (DN3, SUS316L electrode, DC24V power)

Model	QTLD/M	X	X	X	X	X	X	X
Caliber	DN3-DN15							
Electrode	SUS316L				316			
Power Supply	AC85~250V						AC	
	DC20V~36V						DC	



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