Electromagnetic Flow Meter

Battery-powered



Description

Battery-powered electromagnetic flow meter adopts lithium battery ,which is capable of working 5-10 years consecutively. If a high-capacity battery is applied, the convertor will have longer working time. The convertor has GPRS and CDMA wireless data transmission function, RS485modbus protocol (external power supply or battery-powered) communication function, and SRD mode wireless network communication system to realize date collection and management. Stainless steel outer covering and infrared remote control is applied to battery powered electromagnetic converter to meet IP68 level seal protection requirement, which means the convertor can be used in underground and other damp places.

Benefit

- Power Supply: 3.6V lithium batteries, 24V or 220V
- Communication, RS485 and GPRS are available...
- Integrated vertification, diagnostic function and empty pipe detection.
- Measure forward and reverse direction flows.
- Built-in reference electrodes, no need to connect ground ring. •
- Dual frequency excitation and stable zero point.
- Precision coil winding technology, makes magnetic field more uniform.
- High protection grade, IP68, can be barried in ground

High accuracy: ±0.5% of reading, ±0.3% and ±0.2% optional, velocity >0.3 m/s.



Battery-powered



With GPRS (Integral)

With GPRS (remote)

Standard Specification

Size : DN10-DN800mm (4"~32") 1.6 MPa (DN200-DN600) Accuracy : ±0.5% of reading, ±0.3% and 1.0 MPa (DN700-DN1000)

±0.2% optional, velocity >0.3 m/s 0.6 MPa (DN1200-DN3000)

 Velocity : Normal liquid >5 µS/cm, Frequency Output : 1~5000 Hz

DI water >20 µS/cm Language : English, Chinese

 Protection Grade : IP68 Other languages are available

 Electrode : SS316L, Hastelloy C, Hastelloy B, Flange Standard : EN1092-1

> Titanium. Tantalum. Platinoiridium PN10,PN16,PN25,PN40

: 5 lithium batteries, ANSI BS16.5 Class 150,300,600 Power Supply

AC85~250V, DC20V~36V JIS2220 10K,20K,40 Power Consumption :<20W AS2129 Table D, Table E

 Communication : RS485,GPRS AS4087 PN16,PN21,PN35 • Ambient Temperature:-20°C~60°C • Process Connection : Flange, Tri-clamp, Clamped, Tread

 Relative Humidity : 5%~90% • Exciting Frequency : 3.12Hz, 4.16Hz, 6.25Hz

 Liner Material : PTFE (-20°C~120°C, DN15-DN1600) 12.5Hz. 25Hz. 30Hz

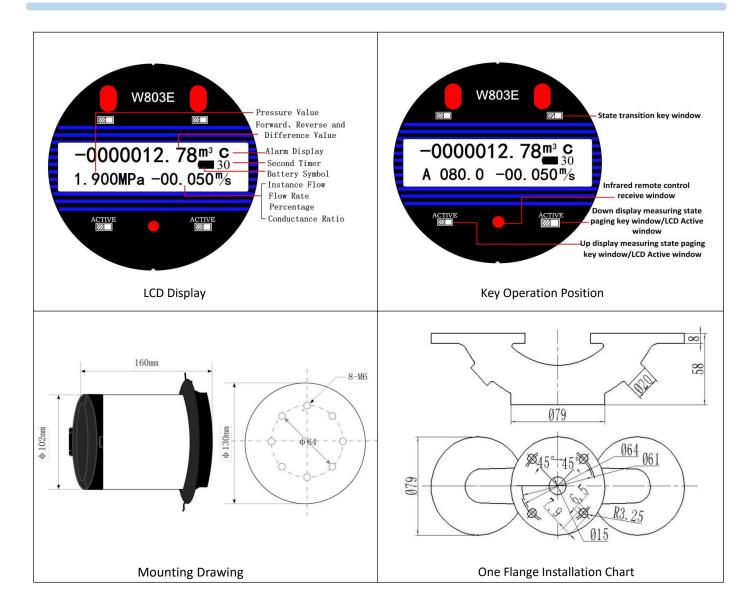
FEP (-20°C~120°C,DN25-DN1800) Measuring Tube : Stainless Steel 304

PFA (-20 °C ~120 °C ,DN3-DN800) : Carbon Steel (standard) Flange PU (-10°C~60°C,DN40-DN1600) : Stainless Steel 304 (optional) CR (-10°C~80°C,DN40-DN3000) : Stainless Steel 316 (optional)

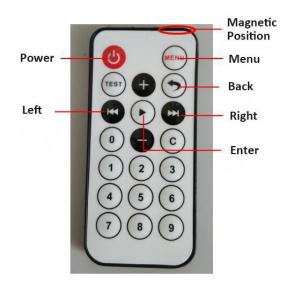
FLS (-10°C~200°C,DN40-DN3000) : Inlet Path ≥ 10D Outlet Path ≥ 5D Straight Pipe

: 0.1 m/s ~ 15 m/s Signal Output : 4~20 mA,pulse Velocity Nominal Pressure : 4.0 MPa (DN3-DN150) Explosion-proof : Exd IIB T6 Gb





Measuring cycle	50mA excitation	20mA excitation
30S	120	200
158	60	100
145	56	93
13S	52	86
125	48	79
115	44	73
10S	40	66
9S	36	59
8S	32	53
7 S	28	46
6S	24	39
5S	20	33
4S	16	26
3S	12	19



Battery Life Infrared Remote Controller



⇒ Selection Table electromagnetic flow meter

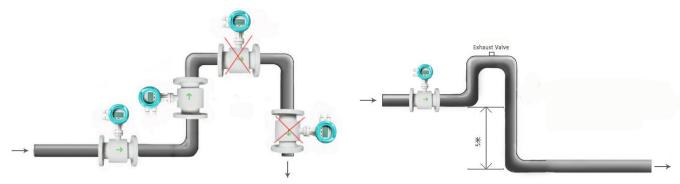
Model QTLD/D	DN150-	S1-	P1	- L1-	E1-	K1	-F1-	D1	-G1	-C1	-F1
Caliber	DN10-DN800										
Structure	Integrated	S1									
	Seperated	S2									
Connection	Flange		J1								
	Tri-clamp		J2								
	Clamped		J3								
	Tread		J4								
	PTFE			L1							
Linar	PFA			L2							
Liner Material	F46			L3							
	Neoprene			L4							
	Polyurethane			L5							
Electrode Material	Stainless steel 3	16L			E1						
	Hastelloy B				E2						
	Hastelloy C				E3						
	Titanium				E4						
	Platinum-iridiun	n			E5						
	Tantalum				E6						
Shell Material	Carbon Steel					K1					
	Stainless steel 3	04				K2					
	Stainless steel 316L K3										
Flange Standard	ANSI 150#, 300#	ŧ, 600	#				F1				
	JIS 10K, 20K, 40K F2										
	DIN PN10,PN16,	,PN25	,PN4	10			F3				
Power Supply	AC85~250V							D1			
	DC20V~36V						D2				
							D3				
Signal Output	4~20 mA								G1		
	Pulse								G2		
Communication	RS232							C1			
	RS485								C2		
								C3			
	Modbus									C4	
	Profitbus									C5	
Protection Grade											F1
	IP68										F2



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Installation Notice



Installed at the lowest point and vertical upward direction

Install exhaust valve at the downstreat of flow meter

Don't install at the highest point and vertical downward diection

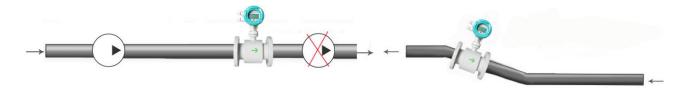
when drop is more than 5m





Installed at the lowest point when used in open drain pipe

Need 10D of upstreat and 5D of downstreat



Dont' install it at the entrance of pump, install it at the exit of pump

Installed at the rising direction

Electrode Property

SS316L	Applicable in water, sewage and corrosive mediums.
	Widely used in industries of petrol,chemistry,carbamide,etc
Stainless Steel Covered	Applicable in mediums of no corrosive and low abrasion.
with tangsten carbide	Applicable in mediums of no corrosive and low abrasion.
Hastelloy B	Having strong resistance to hydrochloric acid of any consistance which is below bioling piont.
	Also resistable against vitriol,phosphate,hydrofluoricacid,organic acid etc,which are oxidable
	acid,alkali and non-oxidable salt.
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.
Tantalum	Having strong resistance to corrosive mediums that is similar with glass. Almost applicable in all
	chemical mediums.Except for hydrofluoric acid,oleum and alkali.
Platinum-iridium	Almost be applicable in all chemical mediums except for aqua fortis, ammonium salt.