

Electromagnetic Flowmeter (Insertion)

Features

- Integrated verification, diagnostic function and empty pipe detection.
- Measure forward and reverse direction flows.
- Can be installed without shutting down the process.
- Dual frequency excitation and stable zero point.
- Precision coil winding technology, makes magnetic field more uniform.
- No moving parts, no pressure loss.
- Grounding Resistance <10Ω
- Application:
 - Chemical
 - Medicine
 - Food & beverage
 - Iron & steel
 - Water supply
 - Waste Water treatment
 - Power plant
 - **HVAC**



Standard Specification

Size : DN100-DN3000 (4" ~ 120")

: ±1.5% of reading; Accuracy

Velocity > 0.3 m/s

Flow Range $: 0.3 \text{ m/s} \sim 15 \text{ m/s}$

Medium Conductivity: Normal liquid >5 µS/cm,

DI water >20 µS/cm

Protection Grade : IP65 (Integral type)

IP68 (Remote type)

Electrode : SS316L

> Hastelloy C Hastelloy B **Titanium Tantalum** Platinum-iridium

Tungsten carbide

Electrode No. : 2x measuring electrodes

Material

Probe : ABS or PP

: Stainless Steel 304 (standard) Sensor Body

Stainless Steel 316 (optional)

Max Cable Distance (Remote): 50m

Medium temperature

Integral type : -20°C ~ 80°C Remote type : -20°C ~ 80°C Working Pressure : ≤1.6 MPa

Flange Standard : DIN PN16, PN40 Connection : Flange ball valve

Thread ball valve

Exciting Current : 125mA, 187mA, 250mA, 500mA Exciting Frequency: 2Hz, 2.5Hz, 3.125Hz, 25Hz

Straight Pipe : Inlet Path ≥ 15D

Outlet Path ≥ 10D

Certificates : CE, CQC, ISO9001

Frequency Output : 1~5000 Hz

Power Supply : AC85~250V, DC20V~36V

Power Consumption: <15W

Language : English, Chinese, other

languages are available

Display : 128X128mm, 3-lines LCD Configuration : 4 internal push buttons

Converter Housing : Aluminum alloy Ambient Temperature: -20°C~60°C

Relative Humidity : 5%~95%

Flow Unit : L/h, L/m, L/s, m3/H, m3/m, m3/s

Signal Output : 4~20 mA, pulse : RS485 Modbus Communication

> Hart **Profibus**









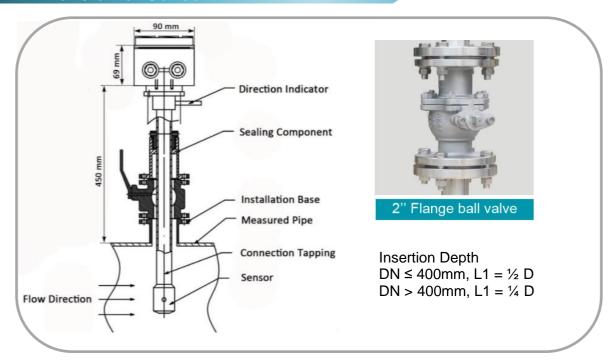


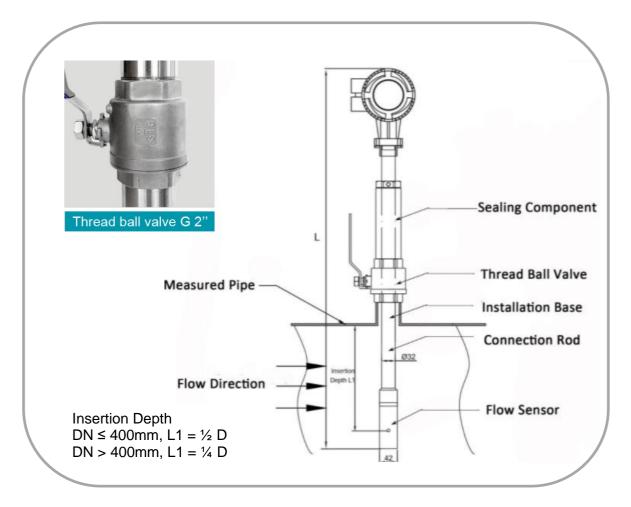






❖ Dimension of Sensor











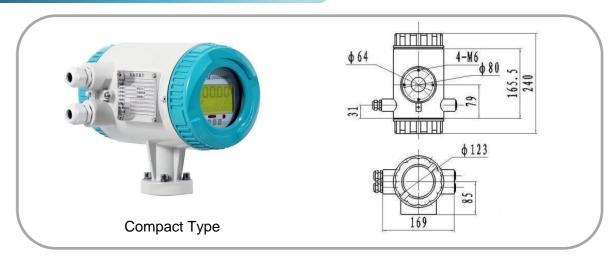


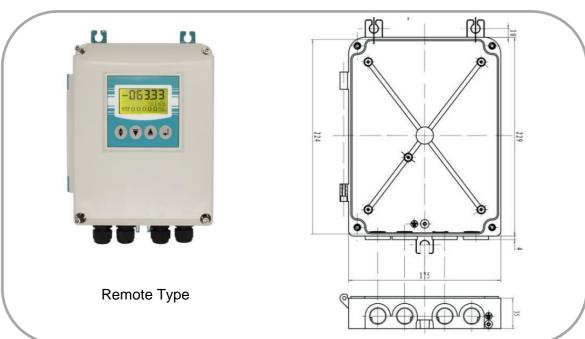






Dimension of Converter





Other Products

















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***** Electrode Property

SS316L	Applicable in water, sewage, waste water and corrosive mediums.								
	Widely used in industries of petrol, chemical, urea, etc								
Stainless Steel Covered	Applicable in mediums of no corrosive and low abrasion.								
with tungsten carbide									
Hastelloy B	Having strong resistance to hydrochloric acid of any concentration which is below								
,	boiling point. Also resistant against vitriol, phosphate, hydrofluoric acid, organic acid etc, which are oxidable acid, alkali and non-oxidable salt.								
Hastelloy C	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								
	Sulfuric acid, hydrochloric acid). 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.								















Electrode



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Model Selection

Model	QTLD/C	XXX	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Caliber	DN 100 to DN 3000 Please check caliber code table 13											
Nominal	1.6 MPa		3									
Pressure	Others		6									
Body	SS304			1								
Material	SS316			2								
	SUS316L				1							
Electrode Material	Hastelloy B	2										
Material	Hastelloy C	3										
Probe	ABS 1											
Material	Polypropylene		2									
Connection	Thread ball valve						1					
Connection	Flange ball valve						2					
Structure	Integral							1				
Туре	Remote							2				
	AC 220V								А			
Power	DC 24V								D			
Supply	3.6V lithium battery		E									
	Others								G			
	4-20mA /Pulse, RS485 Modbus		Α									
	4-20mA, HART											
Output Signal	GPRS									С		
Sigilal	GSM									D		
	Others									E		
Ex-proof	Without Ex-proof										0	
	With Ex-proof											
Dunkantin :-	IP65											
Protection	IP68			В								

Optional Selection

х								
1	Installation Accessories							
2	Others							

Table 13

10010 20														
Caliber	100	125	150	200	250	300	350	400	450	500	600	700	800	900
Code	101	125	151	201	251	301	351	401	451	501	601	701	801	901
Caliber	1000	1100	1200	1400	1500	1600	1800	2000	2200	2400	2600	2800	3000	
Code	102	112	122	142	152	162	182	202	222	242	262	282	302	









