Mild steel magnetic flow meter

Introduction: Mild steel electromagnetic flow meter is used to measure conductivity greater than 5 μS/cm volume flow of conductive liquid.Shengda water meter CO.,LTD are professional magnetic flow meter manufacturer in China.

Function：

1. Measure instantaneous flow,Measure the cumulative flow.
2. Flow limit and flow low Range setting
3. Lower limit of flow alarm,Flow limit alarm,Pipeline empty pipe alarm, Instrument failure alarm
4. Anti radio interference function
5. Total flow is recorded in hours/minutes/seconds
6. Output: pulse signal, output current signal.
7. Transmit the collected data to the operating system or automatic control system through communication cable or wireless mode(GPRS/4G/NB-IOT/LoRa/LoRaWAN.)
8. Two way measurement system, forward total amount, reverse total amount and difference total amount, can display positive and reverse flow.

Specifications：

Types	Remote type electromagnetic flow meter 	Integrated type electromagnetic flow meter 	Battery powered flow meter 	Battery powered with GPRS/LoRa/4G/NB-Iot 	Pressure measurement function 
Pressure	0.6Mpa,1.0Mpa,1.6Mpa, 4.0Mpa,others		1.0Mpa, 1.6Mpa,4.0Mpa,others		
Size	DN15~DN3000(½ inch~10 feet)		DN15~DN600	DN15~DN300(½ inch~12 inch)	
Power	24 VDC,220 VAC		Battery 3.6 VDC(working 3-6years		
Outputs	Std. 4 – 20 mA,0Hz~5kHz				
Communication	MODBUS / RS-485 / Pulse / Frequency				
Liner	Neoprene, Polyurethane rubber, natural rubber,PFA, PTFE,etc,				
Electrode Material	SS316L(standards), Hastelloy B/C,etc.				
Accuracy	± 0.2%, ± 0.3%,±0.5%(flowrate<1m/s) .Optional				
Measuring Range	0.5m/s~10m/s				
Display Unit	Standard Unit in m^3, Litre				
Process Temperature	-20°C~160°C		0°C~80°C		
Protection Class	IP65,IP67,IP68.Optional				
Flow Tube Material	SS316,SS304(Optional)				
Construction Material	Mild steel				
Flange Standard	ANSI/DIN/GB/JIS				
Display	LCD Display				
Installation	Inline Flange Type.				
Version	Smart/Remote				

Application:

Sewage treatment, Water abstraction, Slurry, chemical sewage,Water purification and desalination, Pulp, Drinking water distribution networks.Revenue metering or billing.Leakage detection.Irrigation.Industry water. Cooling water.Wastewater.

Specifications：

Electrode	Application
SS316L	Nitric acid, sulfuric acid with concentration <5% at room temperature, weak acid, alkali solution, sulfite under certain pressure, sea water, acetic acid and other media have strong corrosion resistance.
Hastelloy B Hastelloy C	It can resist the corrosion of oxidizing acids, such as nitric acid, mixed acid, or mixed medium of chromic acid and sulfuric acid, and also can resist the corrosion of oxidizing salts, such as fe++, cu++. Or hypochloric acid and alkali, seawater
Titanium	It is resistant to the corrosion of seawater, various chlorides, hypochlorites, chlorinated acids, organic acids, alkalis, etc., and is not resistant to the corrosion of relatively pure reducing acids (such as sulfuric acid and hydrochloric acid).
Tantalum	Excellent corrosion resistance. Except hydrofluoric acid, fuming sulfuric acid and alkali, it can resist the corrosion of almost all chemical media (including hydrochloric acid, nitric acid with boiling,oint and sulfuric acid below 175 ℃). but it is not resistant to corrosion in alkali.
Platinum-iridium	Good corrosion resistance to acid, alkali and various salts, But not resistant to nitromurlatic acid corrosion
Stainless steel coated with tungsten carbide	For non corrosive and strong abrasive media

Liner materials：

Liner materials	Application
Soft rubber (DN50~DN3000) Hard rubber(DN50~DN3000)	0 ℃~80 ℃ non strong acid, strong alkali and strong oxidizing medium Masurable sewage and mud
PTFE (≤DN1000)	1. -10℃~120℃ 2. strong corrosive media such as concentrated acid and alkali 3. sanitary media
Polyurethane (≤DN300)	1. -25℃~60℃ 2. Neutral strong wear mineral slurry, coal slurry and slurry
PFA(≤DN250)	1. -25 ℃~140 ℃ non strong wear medium 2. Sanitary media
F46(≤DN250)	1. -25 ℃~140 ℃ non strong wear medium 2. Sanitary media

Selection Table:

Model	SDLD-F	□□□	□□	□	□	□	□	□	□	□	□	□	□	0
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Caliber	DN15-DN3000	eg:015 means DN15												
Flang standard /	0.25Mpa		02											
	0.6MPa		06											
	1.0MPa		10											
	1.6MPa		16											
	ANSI 150		20											
	4.0MPa		40											
	ANSI 300		50											
	JIS 10K		91											
	JIS 20K		92											
	Customization		XX											
Liner materials	Soft rubber (DN50~DN3000)			1										
	Hard rubber(DN50~ DN3000)			2										
	PTFE (≤DN1000)			3										
	Polyurethane (≤DN300)			4										
	PFA(≤DN250)			5										
	F46(≤DN250)			6										
	Ceramics(DN50~ DN150)			7										
Electrode Material	Stainless steel 316L				1									
	Hastelloy C				2									
	Hastelloy B				3									
	Titanium				4									
	Tantalum				5									
	Platinum-iridium				6									
	Stainless steel coated with tungsten carbide				7									
	Conductive ceramics				8									
Grounding and lining protection	Grounding screws					0								
	Grounding rings					1								
	Grounding electrodes					2								
	Inlet protection flange					3								
Materials temperature	≤80°C						A							
	≤120°C						B							
	≤180°C						C							
Protection Grade	IP65							1						
	IP67							2						
	IP68							3						
	IP65+Ex d ib mb IIC T4 Gb							4						
Structure	Integrated								C					
	Seperated								R					
Power Supply	85~265VAC/45~63Hz									A				
	16~36VDC									D				
	3.6VDC									B				
Display	LCD										1			
	OLED										2			
Signal Output And Communication	4~20 mA+ Pulse+alarm （standards）											0		
	4~20 mA+ Pulse+alarm+RS232											2		
	4~20 mA+ Pulse+alarm+RS485											4		
	4~20 mA+ Pulse+alarm+MODBUS											M		
	4~20 mA+ Pulse+alarm+HART											H		
	4~20 mA+ Pulse+alarm+Profibus+DP											P		
Calibration	±0.5% three flow												1	
	±0.2% five flow												2	
	±0.5% five flow												3	
	Standard												X	
Shell Material	Carbon steel													0
	Stainless steel 304													1

Please contact us for more information and solutions.

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