

MEF-8600

Marmonix electromagnetic flow meter for wastewater

Overview:

Marmonix electromagnetic flow meter for wastewater MEF-8600 is hallmarked by its high performance and reliability based on successful, field-proven technology. It is being widely used in industries such as petroleum, chemical engineering, iron and steel, electric power, paper making, water treatment, petrochemical, medicine etc.

Features:

- Medium temperature can be -20°C ~200°C.
- Integrated verification, 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, IP65.
- No moving parts, no pressure loss.
- High accuracy: ±0.5% of reading, ±0.3% and ±0.2% optional, velocity >0.3 m/s.

Application:

- Chemical
- Medicine
- Beverage
- Iron and steel
- Water supply
- Electric power
- Water treatment









1-DC 4-20mA Pulse alarm Modbus485 RTU



4-display flow rate, total flow, duplex flow



2-Standard:GB
ANSI DIN JIS



5-316L HC HB
Tan Ti Pt
stainless steel
covered with
tangsten carbide



3-PTFE,PFA,FEP, F46,PU Ceramic



6-99.99% pure copper coil



Specification

Size	DN3-DN3000mm (1/8"~120")						
Accuracy	±0.5% of reading, velocity >0.3 m/s						
Conductivity	Normal liquid >5 μS/cm,DI water >20 μS/cm						
Velocity	0.1-15 m/s						
Protection Grade	IP65 Compact, IP68 Separated						
Power Supply	AC85~250V, DC20V~36V						
Electrode Type	Fixed, Scraper						
Power Consumption	<20W						
Signal Output	4~20 mA, pulse						
Communication	RS485/Modbus,Hart over 4~20 mA, Hart, Profitbus						
Language	English, Chinese (Other languages can be provided on request)						
Display	LC Display,128X128mm, Three lines, 4 internal push buttons						
Ambi-	-25 ~ +60 °C /-77 ~ 140 °F Sensor						
ent Temperature	,						
Liquid Temperature	Integrated: 70° C / 158° F max Separated: 200° C / 392° F max						
Relative Humidity	5%~90%						
Exciting Current	125mA, 187mA, 250mA, 500mA						
Exciting Frequency	25Hz, 3.125Hz, 2.5Hz, 2Hz						
Measuring Tube	Stainless Steel 304						
Flange	Carbon Steel (standard)						
	Stainless Steel 304						
	Stainless Steel 316						
Straight Pipe	Inlet Path ≥ 10D, Outlet Path ≥ 5D						
Certificates	CE 6022120716, ISO9001:2008, CQC1500155689521						
Frequency Output	1~5000 Hz						
Electrode	SS316L (standard), Hastelloy C, Hastelloy B,Titanium Tantalum, Platinoiridium,Stainless Steel Covered Tungsten carbide						
Lin - u Ba - k - ui-l							
Liner Material	PTFE DN15-DN1600 -20 $^{\circ}$ C ~+120 $^{\circ}$ C (-68 $^{\circ}$ F ~ 248 $^{\circ}$ F)						
	PFA DN3-DN800 $-20^{\circ}\text{C} \sim +120^{\circ}\text{C}$ (-68°F ~ 248°F)						
	F46 DN25-DN1800 -20°C \sim +120°C (-68°F \sim 248°F)						
	Neoprene DN40-DN3000 -10°C ~ + 80°C (-50°F ~ 176°F)						
	Polyurethane DN40-DN1600 -10 $^{\circ}$ C ~+ 60 $^{\circ}$ C (-50 $^{\circ}$ F ~ 140 $^{\circ}$ F)						
	FLS DN40-DN1800 -10°C ~ + 200°C (-50°F ~ 392°F)						
Pressure Rating	4.0 MPa (DN3-DN150)						
	1.6 MPa (DN200-DN600)						
	1.0 MPa (DN700-DN1000)						
	0.6 MPa (DN1200-DN3000)						
Flange Standard	ANSI B16.5 150#, 300#, 600#						
	EN1092-1 PN10,PN16,PN25,PN40 JIS B2220 10K, 20K, 40K						
	313 DZZZO - TOK, ZOK, 40K						



Selection Model

Model												
Structure	Integrated	S1										
	Seperated	S2										
Nominal	0.6MPa		P1									
Pressure												
	1.6MPa		Р3									
	4.0MPa P4											
Liner	PTFE DN15-DN1600 -20℃~120 ℃			L1								
Material	PFA DN3-DN800 -20°C~120°C		L2									
	F46 DN25-DN1800 -20°C~120 °C			L3								
	Neoprene DN40-DN3000 -10°C~80°C			L4								
	Polyurethane DN40-DN1600 -10°C ~60°C			L5								
	FLS DN40-DN1800 -10°C ~ 200°C											
Electrode	Stainless steel 316L				E1							
Material	Hastelloy B				E2							
	Hastelloy C Titanium				E3							
					E4	1						
	Platinum-iridium			E5								
	Tantalum				E6							
	Stainless steel covered with tungsten carbide				E7							
Body	Carbon Steel					B1						
Material	Stainless steel 304				B2							
	Stainless steel 316L					В3						
Flange	ANSI 150#, 300#, 600#					F1						
Standard	110 2011) 1011					F2						
_	DIN PN10,PN16,PN25,PN40						F3					
Power	AC85~250V							D1				
Supply	DC20V~36V							D2	C1			
Signal Output	4~20 mA								G1 G2			
Commu-	Pulse Modbus-RS485								UZ	C1		
nication	Hart C2											
	Profitbus					C3						
Protec-	IP65 Integrated									30	H1	
tion Grade	IP68 Seperated										H2	
Electrode	Fixed											D1
Туре	Scraper					D2						



Performance for Electrode

Electrode Material	Applications
Stainless Steel 316L	Applicable in water, sewage and corrosive mediums. Widely used in industries of petrol , chemistry , carbamide ,etc
Hastelloy B (HB)	Having strong resistance to hydrochloric acid of any consistance which is below boiling point. Also resistable against vitriol, phosphate, hydrofluoric acid, organic acid etc which are oxidable acid, alkali and non-oxidable salt.
Hastelloy C (HC)	Be resistant to oxidable acid such as nitric acid, mixed acid, as well as oxidable salt such as Fe+++,Cu++aStnd sea water
Titanium	Applicable in sea water, 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. But if acid contains antioxidant is greatly reduce corrosion.
Tantalum	Having strong resistance to corrosive mediums that is similar with glass Almost is applicable to all chemical mediums. Except for hydrofluoric acid, oleum and alkali.
Platinum-iridium	Almost be applicable in all chemical mediums except for ammonium salt.
Stainless Steel Covered Tungsten Carbide	Applicable in mediums of no corrosive and low abrasion.



