HFM100 Electromagnetic Flow meter

Nanjing Hangjia Electronic Technology Co., Ltd.

Product Overview:

HFM100 Electromagnetic Flow meter is made of a sensor and a converter. It works base on Faraday's law of electromagnetic induction to measure conductivity of liquid or liquid-solid medium. It requires the conductivity should be greater than 5μS/CM (the conductivity of tap water and raw water is 100-500μS/CM). It can be used for many mediums like acid, alkali, saline solution, paper pulp, ore pulp etc but the medium can not much conclude ferromagnetic substance or a mass of bubbles. This product is a main flow instrument for measuring conducting liquid, which can be widely used for flow measurement in the fields of water conservancy, municipal administration, chemical, food, pharmacy, papermaking, metallurgy, electric power, environment protection, etc.

Features:

·Clear LCD display screen, display instantaneous flow and cumulative flow respectively

·Advanced excitation technology, brief excitation circuit with stability and reliability

·Pioneering fuzzy algorithm technology applies to measurement of electromagnetic flowmeter with the performance of artificial intelligence

·Empty and full pipe measurement technique to avoid false alarms

·With low conductivity measurement function

·Prompt response design for high resistance, undistorted collection of weak signals and prompt reaction for flow change , the range rate can achieve 100:1

·Various optional output communication interfaces

Parameters:

Aperture Diameter	DN10-DN2400
Flange	GB/T9119-2000standard carbon steel (stainless steel optional)， other standards can be customized
Rated Pressure Grade	DN10～DN600, 1.0 1.6 2.5 4.0MPa; DN700～DN2000, 0.6 1.0 1.6MPa
Lining Material	Chloroprene Rubber (CR), Teflon (PTFE), Polyurethane Rubber (PU), Polyethylene (PE), PFA, etc.
Electrode	Default Stainless steel 316L, Hastelloy (HB and HC), Titanium, Ttantalum, Platinum optional
Ingress Protection	IP68, IP65 for Customized
Accuracy Grade	0.5 grade
Medium Temperature	Sensor: -25～180℃, Transmitter: -10～80℃
Measuring Flow Velocity	Less than 20m/s
Supply Voltage	24VDC, 220VAC
Output	Current 4～20mA, Pulse, RS485 and HART optional

Ordering Guide:

Item NO.	Code	Illustration
HFM100	- -	Electromagnetic Flowmeter
Installment Way	S - D - C -	Flange Type Camping Type Inserted Type
Inside Nominal Diameter	15 - 20 - … 2400 -	DN15 DN20 … DN2400
Electrode Form	F -	Standard Fixation
Electrode Material	S6 - - - - - - - - - - - - - - - - - - - HC - - - - - - - - - - - - - - - - - TI - - - - - - - - - - - - - - - - - - -	Stainless Steel 316L Hastelloy C Titanium

	TA CW	Tantalum Tungsten carbide Electrode
Lining Material	CR FE PU	Chloroprene Rubber Teflon Polyurethane
Measuring Tube Material	S4 S6 TG	Stainless Steel 304 Stainless Steel 316L Carbon Steel
Flange Material	S4 S6 TG	Stainless Steel 304 Stainless Steel 316L Carbon Steel
Cover Material	S4 S6 TG	Stainless Steel 304 Stainless Steel 316L Carbon Steel with Stoving Varnish
Paired Flange	0 1	Without With
Ground Ring	0 1	Without With
Rated Pressure	10 16 40	10bar 16bar 40bar
Medium Temperature	E H	Less than 80℃ Less than 180℃ (Separated Type)
Convertor Type	I D	Integrated Type Separated Type
Output Signal	P A F J N	Pulse 4～20mA Frequency RS485 No output signal
Supply Voltage	0 1 2	220V AC 24V DC Battery Powered
Explosion-proof Grade	0 Exd	Non-explosionproof Explosion-proof Type
Reference Item： HFM100-S-20-F-S6-FE-S4-S4-TG-0-0-16-E-I-A-0-0		