

Intelligent Electromagnetic Flow Meter (Sanitarytype)

GAIMC

GMF200

PRODUCT DESCRIPTION

GMF200 The sanitary magnetic flow meter is specially designed for measurement of food liquid, like milk, cream, juice of various fruits, pharma liquid etc. It is available with compact or remote version of transmitter can be installation either horizontally or vertically with a variety of optional end-fittings to meet your requirements.

FEATURES

1. Measurement result will not be affected by change of density, viscosity, temperature, pressure and conductive rate
2. Product with good anti-corrosion and abrasion resistance performance
3. Full digital process, strong anti-interference performance, operating reliable with high accuracy and wide range of flow rate
4. Super low voltage EMI switch power supply, which could ensure fast response for voltage changes and good resistance on EMI
5. LCD display content could be shifted between Chinese and English, and other languages (Spanish, Japanese, Korean, French and so on) could be customized.
6. Product is manufactured with SMD devices and SMT technology, which provides high reliability circuits.
7. With self checking and diagnosis function.



SPECIFICATIONS

GMF200 Sanitary Electromagnetic flow meter	
Medium	Food, pharmaceutical industries such as milk, fruit juice, medicine.
Diameter	DN10~DN100mm
Accuracy	±0.5%
Medium temperature	<180℃
Nominal pressure	1.6 MPa
Flow rate	0.3~10m/s
Straight pipe required	Upstream ≥5DN, downstream ≥3DN
Electrode	316L
Lining material	PTFE(F4), Teflon FEP(F46), PFA
Installation way	Clamp on
Body material	SUS304(standard), SUS316(optional)
Power supply	220VAC/24VDC/lithium battery
Signal output	Pulse and 4~20mA
Communication	RS485, GPRS, Hart
Explosion-proof	No
Protection proof	IP65(compact type), IP67, IP68(suitable for remote type)
Work environment	Ambient temperature: -20~+60℃, Ambient humidity: 5%~90%

Flange range
 $Q = \pi D^2 \times V \times 0.0036 \div 4$

Size(D)		Flow rate (Q) unit (m3/h)		
		V = 0.3 m/s	V = 6 m/s	V = 10 m/s
mm	inch	Min.	Calibrated	Max.
10	3/8"	0.0848	1.7	2.826
15	1/2"	0.1909	4	6.362
20	3/4"	0.3393	7	11.31
25	1"	0.5302	11	17.67
32	1-1/4"	0.8686	17	28.95
40	1-1/2"	1.358	27	45.24
50	2"	2.121	42	70.69
65	2-1/2"	3.584	72	119.5
80	3"	5.429	109	181.0
100	4"	8.483	170	282.7

TYPE SELECTION

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Diameter	DNXX									DN10~DN100(mm)
Structure	F									Remote type (standard with 10m cable)
	Y									Compact type
Electrode	S									316L
	T									Titanium(Ti)
	D									Tantalum(Ta)
	C									Hastalloy C(HC)
	P									Platinum iridium alloy
Lining material	F									PTFE
	A									PFA
Body material	S4									SUS304
	S6									SUS316
Protection class	L0									IP65(compact type)
	L1									IP67(remote type)
	L2									IP68(remote type)
Power supply	1									85~265VAC 45~63Hz
	2									20~36VDC
	3									Lithium battery
Signal output	N									No output
	A									4-20mA
	M									Pulse output
	P									Frequency output
	H									HART protocol
	R2									RS485
	G									GPRS
With grounding ring/With grounding electrode	0									Without grounding ring
	1									With grounding ring
	2									With grounding electrode