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OverView:

Electromagnetic Flowmeters EMFM3 are used in various ways. Large ones are for water supply and drainage. Medium and small ones handle demanding tasks, like cooling water control in steel mills or measuring liquids in the paper and chemical industries. They also work with corrosive substances in metallurgy and in hygienic environments like the pharmaceutical and food industries.

Electromagnetic Flowmeters

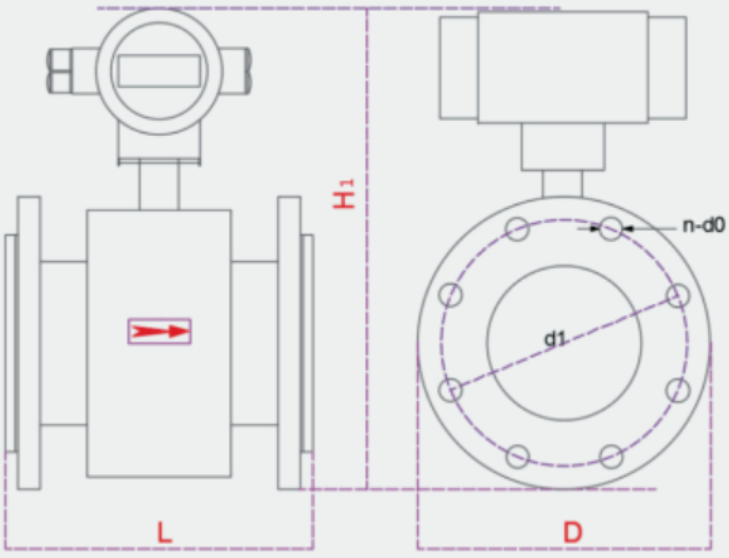
Feature:

- The measurement channel consists of a smooth straight pipe, ensuring no blockages. Ideal for measuring liquid-solid two-phase
- No pressure loss occurs during flow detection, resulting in excellent energy savings.
- The measured volume flow remains largely unaffected by changes in fluid density, viscosity, temperature, pressure, and
- Offers a large flow range and accommodates a wide caliber range.
- Suitable for applications involving corrosive fluids.

Application:

- chemical fiber, food, paper making, sugar, mining, metallurgy, water supply, and drainage, along with environmental protection.
- Widely used in hydraulic engineering, iron and steel industries, petroleum, pharmaceuticals, beer, wort, and various beverages.
- Suitable for measuring corn pulp, fiber pulp, syrup, lime milk, sewage, and cooling raw water.
- Applicable to drainage, saltwater, hydrogen peroxide, black liquor, and other conductive fluid media flows.

Dimensions:



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Specifications:

Electromagnetic Flowmeter EMFM3

Maximum velocity of flow	15m/s		
Accuracy	DN15 ~ DN600	±0.5% of the indicated value(flow velocity≥1m/s), ±0.2%	
		+3mm/s (flow velocity < 1m/s)	
	DN700 ~ DN3000	±0.5% of the indicated value (flow velocity ≥ 0.8m/s)	
		±4mm/s (flow velocity < 0.8m/s)	
Fluid Electrical Conductivity	≥50μS/cm		
Nominal pressure	DN10 ~ DN200	1.6MPa	
	DN250 ~ DN1000	1.0MPa	
	DN1200 ~ DN2000	0.6MPa	
	DN2200 ~ DN3000	0.6MPa	
Nominal pressure	Sensor	-25°C~ +60°C	
	Converter & Integrated type	-10°C~ +60°C	
Lining material & Fluid maximum temperature	Lining material	Separate type	Integrated type
	PTFE (Polytetrafluoroethylene)	120°C (special customization)	70°C
	PFA (Perfluoroalkoxy resin)	180°C (special customization)	70°C
	FEP (Fluorinated ethylene propylene)	160°C (special customization)	70°C
	Polychloroprene Rubber	80°C (special customization)	70°C
	PUR (Polyurethane)	80°C	70°C
Signal electrode form	Fixed type (DN15 ~ DN2600)、scraper type (DN80 ~ DN3000)		
Signal Electrode &	Molybdenum-containing stainless steel, Hastelloy B, Hastelloy C, Titanium,		
Ground Electrode Materials	Tantalum, latinumiridium alloy, stainless steel coated tungsten carbide		
Connection flange material	Carbon steel		
Grounding flange material	Stainless steel 1Cr18Ni9Ti		
Inlet protection flange material	DN15 ~ DN600	Stainless steel 1Cr18Ni9Ti	
	DN700 ~ DN3000	Carbon steel	

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IP Rate	DN15 ~ DN150separable rubber or polyurethane lined sensor	IP65, IP68 (special customization)
	DN200 ~ DN2600separable rubber or polyurethane lined sensor	IP68, 10 meters underwater
	Other sensors and all converters	IP65
Spacing (separate type)	The distance between the converter and the sensor is generally not more than 100m; if it exceeds 100m, special customization is required.	

DN700 ~ DN3000, the accuracy of special order can reach +0.3% of the indicated value (flow velocity ≥ 1m/s) or +3mm (flow velocity < 1m/s).

Lining material	Main performance	Applications
PTFE (Polytetrafluoroethylene)	It is the material that has most stable chemical property among plastics:resistant to boiling hydrochloric acid, sulfuric acid, nitric acid and aqua regia, also resistant to concentrated alkali and various organic solvents, not resistant to corrosion by chlorine trifluoride, high temperature oxygen trifluoride, high flow rate liquid fluorine, liquid oxygen and ozone. Poor wear resistance The ability to resist negative pressure is poor.	100°C, 150°C (special customization) Strong corrosive media such as concentrated acid and alkali Hygienic media
PCR(Polychloroprene Rubber)	It has excellent elasticity, high breaking force and good wear resistance It is resistant to the corrosion of general low-concentration acid and alkali salt media, and not resistant to the corrosion of oxidative media.	80°C, 120*C (special customization) General water, sewage, weak abrasive mud, ore pulp
PUR (Polyurethane)	Excellent wear resistance (equivalent to ten times that of natural rubber) Acid and alkali resistance is poor. It cannot be used for water mixed with organic solvents.	< 80°C Neutral and strong abrasive slurry, coal slurry, mud, etc

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Order Informations:

EMFM3	Code and description						Remark
	Electromagnetic flowmeter						Model
	DN	10....100....3000					Diameter
		1.6	(DN10-DN200)				Nominal pressure
		1	(DN250-DN1000)				
		0.6	(DN1200-DN2000)				
		0.6	(DN2200-DN3000)				
		XX	Special customized				
			1	Teflon(HG)			Lining material
			2	Polychloroprene rubber			
			3	polyurethane			
			4	Polyperfluoroethylene propylene.			
			5	And network PFA			
				1	Stainless steeloc0Cr18Ni12Mo2T		Electrode materials
				2	The type of alloyB		
				3	The type of alloyC		
				4	titanium		
				5	Platinum-iridium alloy		
				6	tantalum		
				7	Stainless steel coated with tungsten carbide		
					1	IP65	Shell protection
					2	IP68 1P65(The sensor is polychloroprene rubber sensor IP68 converter IP65 or polyurethane-explosion-proof separation type is optional)	
						2 Exdm IICT4 (No acetylene) (Ashape, IP65, Magnetic bond or no display)	Explosion-proof marks
						3 Exdm IICT4 (No acetylene) (separation type, IP65, Magnetic bond or no display)	
						4 Exdm/IT4 (No acetylene) (separation type, IP65, Converter in safe zone)	

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2	grounding electrode			Attachment
3	grounding electrode			
4	Inlet protection flange			
5	Electrode scraper mechanism			
	1	Erseparation type, English Menu		Structure
	2	EhA shape. English Menu		
	*Separate type special cable with meter 10M, More than 10 M needs to be customized			
		1	265-85V 400-45Hz	Power
		2	40-11VDC	
		MA	MAKey, double line display, output standard	Converter form
		MB	MB Key, double line display, output standard. RS485	
		LA	LAKey, double line display, output standard	
		LB	LB Key, double line display, output standard. RS485, HART	
		AA	AAKey English menu, double line display, output standard. RS232	

For technical support please contact: support@neowave.tech