Electromagnetic flow sensor FC11 series

FAn overview of the characteristics of

FC11 electromagnetic flowmeter is a main flow meter, composed of sensor and converter two parts, based on Faraday's law of electromagnetic induction work, used to measure the conductivity of liquid or two-phase medium, the conductivity of the requirement should be greater than 5μS/cm(tap water original conductivity of about

100-500μS/cm), can be used to measure all kinds of acid, alkali , salt solution, pulp, pulp and other media, but the medium can not contain more ferromagnetic substances and a large number of bubbles, widely used in petroleum, chemical industry, metallurgy, textile, paper, environmental protection, food and other industrial departments and municipal management, water conservancy construction and other fields of fluid measurement

- ◆ Measurements are not affected by changes in fluid density, viscosity, temperature, pressure, and electrical conductivity
- ◆ No obstructing flow parts, no pressure loss and straight pipe section are required
- ◆ The sensor can be equipped with a grounding electrode to achieve good grounding of the instrument
- ◆ With positive/negative two-way flow measurement function
- ◆ The converter uses liquid crystal backlight display to make it easy to read in direct sunlight or dark rooms
- ◆ The converter can display the volume flow percentage, actual flow and cumulative flow simultaneously
- ◆ Mounted on the tube with a standard (type) ≤90° rotating display improves the visibility of the integrated flowmeter
- ◆ The converter has the functions of self-diagnosis alarm output, empty load detection alarm output, flow upper and lower limit alarm output, two-stage flow value output and so on

FTechnical indicators

CAL	DN10mm-DN1000mm
Measuring the liquid	Conductive liquid, slurry
Electrical conductivity	⩾51S/cm
precision	Indicates ±0.5% of the value, and indicates ±0.3%±0.2% of the optional value
Measuring range	1500:1 Flow rate setting: 0.1~< 15m/s
Structure form	One body type, separate body type
Electrode materials	Stainless steel 316L, platinum Iridium, Hastelloy, tantalum, titanium
The lining material	Neoprene rubber, polytetrafluoroethylene (PTFE), polyperfluoroethylene propylene (FEP), polyurethane rubber
The shell material	Carbon steel (standard), stainless steel (non-standard custom)
Medium temperature	-40°C to +180°C, limited by the temperature resistance of the lining material
The environment temperature	-25°C~+60°C
Environmental humidity	5~100%RH (relative humidity)
Shell protection class	IP65、IP68

Selection guide

FC11	050	1	A	1	1	A	1	0	A	1	1	**Model specification**
The name of the												Electromagnetic flow sensor
CAL	050											DN10~DN1000
electrode		1										Stainless steel
		2										Hastelloy B
		3										Hastelloy C
		4										platinum
		5										platinum
		6										tantalum
The lining material			A									Neoprene rubber (CR)
			B									Polyurethane rubber (PU)
			C									Polytetrafluoroethylene
			D									Polyperfluoroethylene propylene
Pressure of work				1								4.0Mpa
				2								1.6Mpa
				3								1.0Mpa
Working temperature					1							≤70 ° C
					2							≤120 ° C
Ground loop						A						There is no
						B						Standard ground ring
Output way							1					4 ~ 20 with display Output with relay
							2					Pulse output
Communication methods								0				There is no
								1				RS485 communication interface
The power supply mode									A			220 vac power supply
									D			24 VDC power supply
Protection grade										1		IP65
										2		IP68
Type of converter											1	one-piece
											2	Split type

Note: Specially customized electromagnetic flowmeter is not included in the supply scope of paired flanges. Users can manufacture by themselves or order separately.