

Product overview

The FRB metal tube float flowmeter is a variable area flow measurement instrument. It's characterized by small volume, large detection range and convenient use. It can be used to measure the flow of liquid, gas and steam, and especially is suitable for medium flow measurement with low flow rate and small flow. Single axis sensitive indication and non-contact magnetic coupling capability. It's widely used for measurement and control of liquid and gas flow in the fields, such as national defense, chemical engineering, petroleum, metallurgy, electric power, lithium battery new energy, environmental protection and pointer display metal tube float flowmeter medicine.

Product features

- Flowmeter caliber: DN10, DN15.....DN250;
- Range ratio: 10:1, 20:1 (special)
- Precision: Level 1.5 and 1.0 (special)
- Output load: 500Ω (when 24V power supply);
- Ambient temperature: -30℃~60℃;
- Pressure rating: 1.6MPa, 4.0MPa, maximum: 25MPa;
- Flow range: Liquid: 1.0~150000l/h, Gas: 0.05~3000m³/h;
- Output signal: 4~20mADC (two-wire system) with HART protocol added;
- Liquid receiving material: 304, 316L and Ti: Titanium alloy.
Teflon lining;
- It can be used to measure the liquid, gas and steam and is especially suitable for measuring the low flow rate and small flow;
- It's total stainless steel structure with convenient maintenance and long lifetime;
- The indicator is completely isolated from the sensor and can be used for high pressure and high temperature process;
- Working under no electricity, DC, battery and other power supply modes;



Product model selection

FBR	Metal tube float flowmeter							
FRB-	Measuring tube structure V Up-in and down-out type B Down-in and up-horizontal out type N down-horizontal in and up-horizontal out type M Right-in and left-out type F Left-in and right-out type							
	Liquid receiving material: 1 0Cr18Ni12Mo2Ti 2 321 3 302 4 304 5 316L 6 PTFE 7 Titanium alloy							
	Pipeline caliber: *** (100 indicates pipeline nominal diameter: DN100)							
	Additional structure 0 None 1 Jacket 2 Damping 3 High temperature 4 High pressure							
	Indicator type M1 Local indicator, square enclosure, mechanical pointer indicating the instantaneous flow; M2 Square shell, mechanical pointer indicating the instantaneous flow, liquid display of instantaneous/cumulative flow; M3 Round shell, multiple acting indicator.							
	0 Only limited to M1 and M4 indicators 1 85-265VAC 50Hz power supply and 4~20mA output with backlight and alarm for relay; 2 Battery power supply, no signal output, backlight or alarm, and only limited to M2 and M4 indicators; 3 24VDC two-wire system power supply and 4~20mA output without backlight; 4 24VDC three-wire/four-wire system power supply and 4-20mA output with backlight.							
	A Ordinary non-explosion-proof type B Intrinsically safe explosion proofing, only limited to M2 and M4 indicators E Flame-proof type, round shell, only limited to M4 indicator							
	K0 Without alarm or pulse output K1 Upper limit alarm or one-way pulse output K2 Lower limit alarm or one-way pulse output K3 Upper limit/lower limit alarm or two-way pulse output							
	R Without backlight S With backlight H Hart protocol M ModBus protocol							
FRB-								