Datasheet

Variable area flowmeter

LZ-SUP

Supmea

Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com

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The variable area flowmeter is measured according to the height of the metal tube float in the conical tube, and the pressure difference generated when the fluid passes through the gap between the float and the pipe wall is used to balance the weight of the float. The greater the flow, the higher the float is held, so that it has Larger annulus area.The metal tube rotameter adopts 304/316 stainless steel structure, which can be used to measure the flow of liquid, gas, and steam. It is especially suitable for flow measurement of low flow rate, micro flow range, high temperature, high pressure, corrosive, conductive or non-conductive medium.It also widely used in petroleum,chemical,food,water treatment and other industries

Features

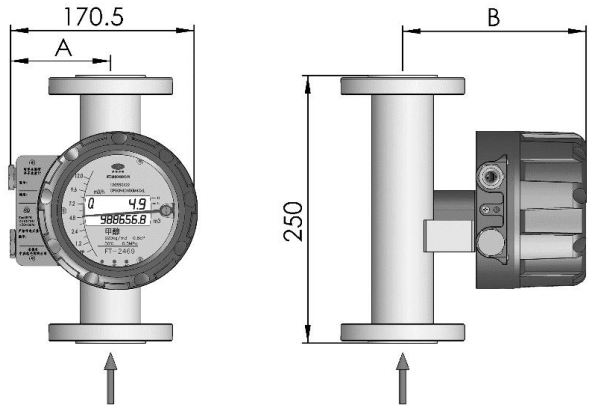
- Suitable for small diameter and low velocity medium flow measurement
- With data recovery, data backup and power failure protection
- Wide range ratio 10:1
- Cumulative/instantaneous flow display
- Two-wire with upper and lower limit relay alarm function
- Optional DC, AC or battery power supply
- All metal structure, suitable for high temperature, high pressure and strong corrosive media

Variable area flowmeter

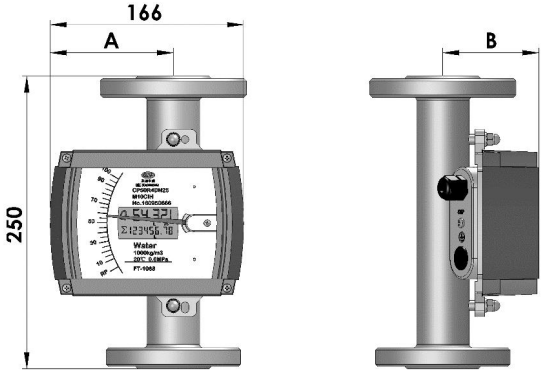
Parameter

Comprehensive parameters	
Range	Water (20℃) (01~150000) L/h Air (20℃.1013MPa) (0.05~3000) m³/h
Range ratio	Standard 10:1 Optional 20:1
Accuracy	Standard: 1.5% Optional:1%
Pressure	Standard：DN15, DN25, DN50: 4.0 MPa (maximum 20 MPa) DN80, DN100, DN150: 1.6 MPa (Maximum: DN80: 10 MPa; DN100: 6.4 MPa; DN150: 4.0 MPa)
	Optional: DN15~DN50≤32MPa DN80~DN200≤16MPa
Connection	Flange，Clamp，Thread， Sanity thread
Medium temp	Standard：-30℃~120℃ PTFE ≤80℃ High temp：120℃~350℃ low temp： -80℃~-20℃
Environment temp	Local type: -40℃~120℃ Remote type: -30℃~60℃
Power supply	Standard type: 24VDC two-wire system (4-20) mA (12VDC~32VDC) Alarm type: 24VDC multi-wire system (4-20) mA (12VDC~32VDC) AC type: (100~240) VAC 50Hz~60Hz Battery type: 3.6V@9AH lithium battery
Load resistance	RL max: 600Ω
Alarm Output	Upper and lower limit instantaneous flow alarm Local alarm type: upper limit, lower limit or upper and lower limit instantaneous flow alarm (Contact capacity 1A@30VDC) Upper limit and lower limit alarm hold range is a maximum of 60% of range, and the minimum interval between upper and lower limit alarms is 10% of range
Pulse output	Internal 24VDC power supply, maximum current 8mA)
Ingress protection	IP65

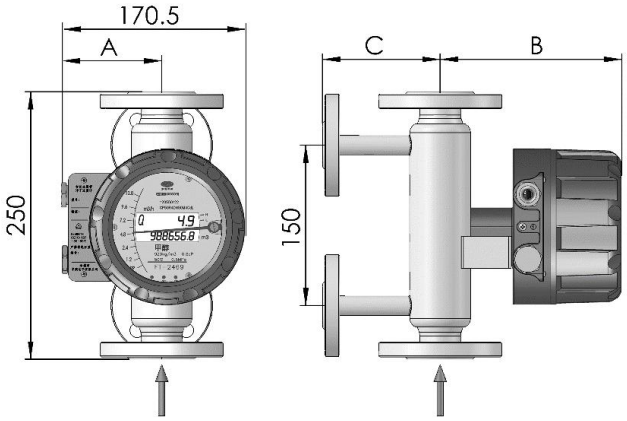
Dimensions



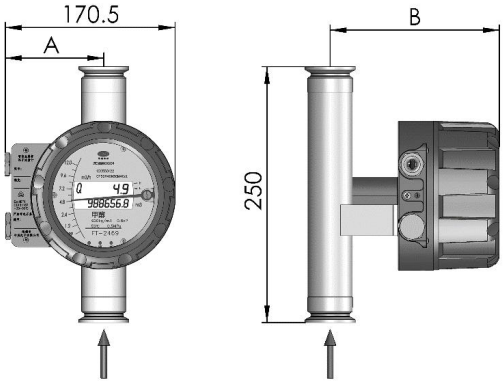
DN15 ～ DN200（standard）



DN15 ～ DN100(standard)



DN15 ～ DN200



DN15 ～ DN100

DN/Size	Pin model M5 shell overall dimensions and weight loss									
	B		C	D	H	H1	L	WEIGHT		ΔP / KPa
	Standard	High temp						51	51 jacketed	
DN15	154	194	100	120	330		250	7	8.6	20
DN25	173	194	110	120	340		250	8	10	20
DN50	173	194	120	120		560	250	15	17.5	11
DN80	173	194	140	150		575	250	25	28	19
DN100	173	194	150	150		590	250	29	32.5	26
DN150	173	194	185	180		690	300	53	57	58
DN200	173	194	210	200		780	350	61	66	80

Ordering code

SUP-LZ-15-B0-M1-X1-M-1-00-0-3-5											Description
SUP-LZ	-	-	-	-		-	-	-	-	-	
Nominal Diameter	15										DN15(1/2")
	20										DN20(3/4")
	25										DN25(1")
	32										DN32(1.25")
	40										DN40(1.5")
	50										DN50(2")
	65										DN65(2.5")
	80										DN80(3")
	1C										DN100(4")
	1E										DN125(5")
	1G										DN150(6")
	2C										DN200(8")
Process Connection		B0									British Standard Pipe Thread (G Thread)
		H2									HG/T20592 PN40
		H1									HG/T20592 PN16
		H4									HG/T20592 PN100
		H3									HG/T20592 PN63
		I0									ISO2852 Clamp Connection
		XX									Other
Measuring Tube and Float Material			M1								304SS
			M3								316LSS
			N6								PTFE-Lined (Polytetrafluoroethylene Lining)
			T1								Titanium (Ti)
			MG								Hastelloy C
			XX								Other
Measuring Tube Structure				X1							Bottom Inlet, Top Outlet
				X2							Bottom Inlet, Top Side Outlet
				X3							Bottom Side Inlet, Top Side Outlet
				Y1							Right Inlet, Left Outlet
				Z1							Left Inlet, Right Outlet
				S1							Horizontal Spring Type
				S2							Top Inlet, Bottom Outlet
Accuracy					M						1.5 Class
					P						2.5 Class

	X					Other
Indicator Type	1					Aluminum Alloy Round Housing, Pointer Display
	3					Aluminum Alloy Round Housing, Pointer + LCD Display
	X					Other
		00				None
		AF				2-Wire 4–20 mA
		AH				4-20mA，24VDC
Output and Power Supply		AG				2-Wire 4-20mA+HART
		AJ				4-20mA+RS485，24VDC
		AL				4-20mA+Pulse，24VDC
		XX				Other
			0			None
Alarm			2			Single SPDT Contact
			4			Double SPDT Contacts
Electrical Interface and Protection Rating				3		M20*1.5 Cable Gland IP67
					5	Standard Type
					1	Gas-Damped Type
Additional Structures					2	High-Temperature Type (Medium Temperature 120°C – 450°C)
					X	Other