



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Variable area flowmeter

LZ-SIN

Sinomeasure

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Datasheet

Variable area flowmeter

LZ-SIN

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

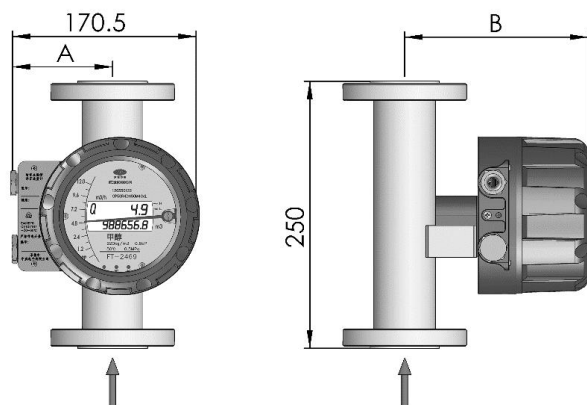


Variable area flowmeter

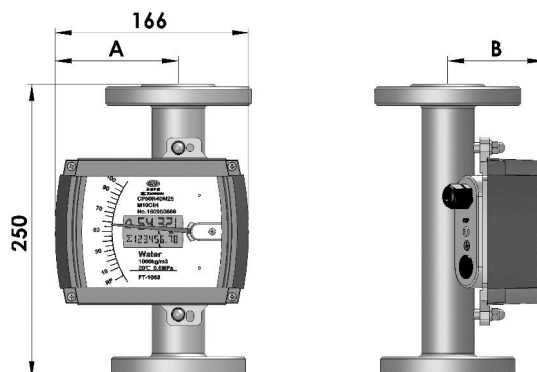
Parameter

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, Sanitary 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

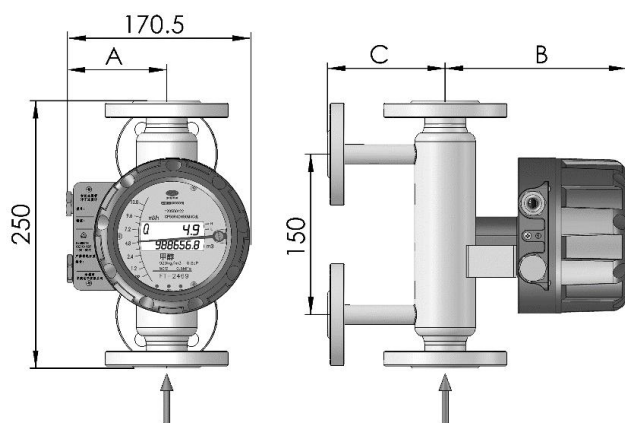
Dimension



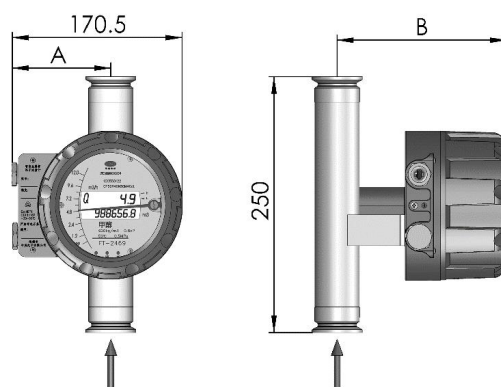
DN15 ~ DN200 (standard)



DN15 ~ DN100(standard)



DN15 ~ DN200



DN15 ~ DN100

DN/Size	Pin model M5 shell overall dimensions and weight loss									$\Delta P / KPa$
	B		C	D	H	H1	L	WEIGHT		
	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

SIN-LZ-15-B0-M1-X1-M-1-00-0-3-5											Description
SIN-LZ	-	-	-	-	-	-	-	-	-	-	
	15										DN15(1/2")
	20										DN20(3/4")
	25										DN25(1")
	32										DN32(1.25")
	40										DN40(1.5")
Nominal	50										DN50(2")
Diameter	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
	H2										Thread (G Thread)
	H1										HG/T20592 PN40
	H4										HG/T20592 PN16
	H3										HG/T20592 PN100
	I0										HG/T20592 PN63
	XX										ISO2852
											Clamp Connection
Measuring Tube and Float Material			M1								Other
			M3								304SS
											316LSS
											PTFE-Lined
			N6								(Polytetrafluoroethylene
											Lining)
Measuring Tube Structure			T1								Titanium (Ti)
			MG								Hastelloy C
			XX								Other
				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
Accuracy				S1							Horizontal Spring Type
				S2							Top Inlet, Bottom Outlet
					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
Output and Power Supply	00			None
	AF			2-Wire 4–20 mA
	AH			4-20mA, 24VDC
	AG			2-Wire 4-20mA+HART
	AJ			4-20mA+RS485, 24VDC
	AL			4-20mA+Pulse, 24VDC
Alarm	XX			Other
	0			None
	2			Single SPDT Contact
	4			Double SPDT Contacts
Electrical Interface and Protection Rating		3		M20*1.5 Cable Gland IP67
Additional Structures			5	Standard Type
			1	Gas-Damped Type
			2	High-Temperature Type (Medium Temperature 120°C – 450°C)
			X	Other