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Anhui jujie Automation Technology Co., LTD



BUSINESS BROCHURE

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COMPANYPROFILE

Anhui Jiejie Automation Technology Co., Ltd., located in Wuhu City, a renowned city in Anhui Province known as the "Famous City of Jiangdong" and the "Famous Region of Wu and Chu," and a hub for innovation, is a high-tech enterprise specializing in industrial automation instruments, integrating production, R&D, and sales.





About Us

Our main products include flow meters, display and recording instruments, temperature and pressure instruments, and level and water quality monitoring instruments. These products are widely used in various industries such as power, petroleum, chemical, mining and metallurgy, water conservancy, light textile, food, pharmaceutical, and environmental protection.

A professional sales team, superior product quality, and elite after-sales service are dedicated to solving real-world industrial problems, truly realizing industrial automation, and contributing to the rise of national brands. We earn your trust with sincerity; "High Technology, High Quality, and Excellent Service" is our unwavering commitment! The company's development and growth cannot be separated from your support. Anhui Jiejie looks forward to working with you to create a brilliant future!

Gathering talent to create a great enterprise, outstanding achievements showcasing brilliance. Through relentless efforts and continuous innovation, Jujie provides customers with superior process control solutions, creating value for society, with technological innovation at its core. We uphold the values of integrity, professionalism, cooperation, and progress; adhere to a quality policy of customer-centricity, prioritizing quality, striving for excellence, precise measurement, and building a first-class brand in the industry; and maintain a service philosophy centered on quality and based on service. We continuously improve our automation technology and solution capabilities to meet diverse customer needs and win their trust and satisfaction. We forge ahead, determined to build an influential brand of process automation instrumentation in Wuhu, Anhui, contributing to the development of national brands.



Anhui JUJIE Automation Technology Co., Ltd.

ENTERPRISE QUALIFICATIONS AND HONORS







63 items

Patent certificate

19 items

National patents and credit certificates

9 items

Software copyright registration certificate

With quality as the core and service as the foundation

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Anhui JUJIE Automation Technology Co., Ltd.

TECHNICAL STRENGTH



Precision craftsmanship, continuous improvement

While maintaining our traditional production of instrument products, we continuously develop more distinctive products that are made with carefully selected materials, refined in craftsmanship, stable in performance, and reliable in function, so as to repay our customers with high-quality products.

Precisely measure each liter of water.

From rigorous internal testing and strict quality control before shipment, to standardized logistics and packaging, we provide users with comprehensive and high-quality products and services. From product selection to production, we meticulously manage every step, striving to be a quality manufacturer in the industrial sector.

Gas flow meter detection

Equipped with a gas sonic nozzle detection device, the flow meters undergo rigorous flow testing before leaving the factory, ensuring strict quality control and guaranteeing product accuracy.

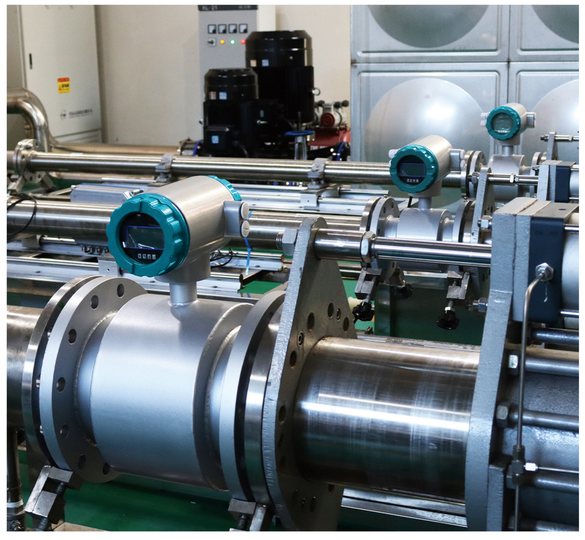
Guaranteed service

Adhering to the spirit of focusing on quality and based on service, we are committed to providing customers with high-quality products and excellent service.









Anhui JUJIE Automation Technology Co., Ltd.

CORPORATE CULTURE

Mission

Innovate constantly, create value consistently

Company Mission: To provide customers with superior process control solutions and create value for society by focusing on technological innovation.

Vision

Gathering talent, achieving greatness, showcasing excellence

Company Vision: To build an influential brand in the process automation industry in Wuhu, Anhui, contribute to national brands, create value for society, and provide customers with high-quality products and services.

Core values

Integrity builds our reputation Expertise showcases our skills Cooperation drives mutual success Relentless pursuit fuels innovation

Company Values: Integrity, Professionalism, Cooperation, and Progress. We uphold integrity as our foundation, ensuring consistency between words and actions both internally and externally, keeping our promises, and respecting laws and ethics. We pursue professional skill levels, continuously learning and improving to enhance our abilities and qualities. We advocate a spirit of cooperation, working together, supporting each other, and growing together. We maintain a progressive attitude, daring to innovate and change, constantly surpassing ourselves, and pursuing excellence.

Business philosophy

Quality at the Core, Service as the Base Customers as the Focus, Quality as the Lifeline

Service Philosophy: Driven by innovation and guaranteed by collaboration, we continuously provide efficient, high-quality, and convenient services to meet the diverse needs of our clients.
Quality Policy: Striving for excellence, precise measurement, and building a first-class brand in the industry.
Business Philosophy: Continuously improving our automation technology and solution capabilities to meet diverse customer needs and earn their trust and satisfaction.
Talent Philosophy: Focusing on hard work, assigning tasks appropriately, and pursuing innovation and transcendence.

DIRECTORY

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DIRECTORY

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LIQUID/GAS FLOW METER

It can be used for measuring the flow rate of pure liquids such as tap water, alcohol, beverages, and oils; it can be used for measuring the flow rate of sewage, wastewater, and acid, alkali, and salt liquids; it can be used for measuring the flow rate of gases such as steam, compressed air, and nitrogen; it can also be used for measuring the flow rate of high-temperature and high-viscosity liquids such as resins and asphalt adhesives; and it can be used in industrial automation systems for measuring micro-flow rates, quantitative flow measurement, and flow display of liquids.

JJ-LWGY TURBINE FLOW METER

The turbine flow sensor, based on the torque balance principle, is a velocity-type flow meter. It features a simple and lightweight structure, high accuracy, good repeatability, sensitive response, and convenient installation, maintenance, and use. It is widely used in industries such as petroleum, chemical, metallurgy, water supply, and papermaking. It is suitable for measuring liquids in closed pipelines that do not corrode stainless steel (1Cr18Ni9Ti, 2Cr13), corundum (Al2O3), or hard alloys, and are free of impurities such as fibers and particles.

When paired with a display instrument with special functions, it can also perform quantitative control and over-limit alarms. An explosion-proof type (ExdIIC T6 Gb) is available, allowing use in environments with explosive hazards. The sensor is suitable for media with a viscosity less than 5 x 10^{-6} m^2/s at the operating temperature. For liquids with a viscosity greater than 5 x 10^{-6} m^2/s, actual liquid calibration is required before use.



Flow range and accuracy class

Instrument diameter (mm)	Flow range (m^3/h)	Expanding traffic (m^3/h)	Accuracy level		
			Pulse type	Current type	Display type
DN4	0.04~0.25	0.04~0.4	Level 1.0	Level 1.0	Level 1.0
DN6	0.1~0.6	0.06~0.6	Level 1.0	Level 1.0	Level 1.0
DN10	0.2~1.2	0.15~1.5	Level 1.0	Level 1.0	Level 1.0
DN15	0.6~6	0.4~8	Level 0.5	Level 1.0	Level 0.5
DN20	0.8~8	0.45~9	Level 0.5	Level 1.0	Level 0.5
DN25	1~10	0.5~10	Level 0.5	Level 1.0	Level 0.5
DN32	1.5~15	0.8~15	Level 0.5	Level 1.0	Level 0.5
DN40	2~20	1~20	Level 0.5	Level 1.0	Level 0.5
DN50	4~40	2~40	Level 0.5	Level 1.0	Level 0.5
DN65	7~70	4~70	Level 0.5	Level 1.0	Level 0.5
DN80	10~100	5~100	Level 0.5	Level 1.0	Level 0.5
DN100	20~200	10~200	Level 0.5	Level 1.0	Level 0.5
DN125	25~250	13~250	Level 0.5	Level 1.0	Level 0.5
DN150	30~300	15~300	Level 0.5	Level 1.0	Level 0.5
DN200	80~800	40~800	Level 0.5	Level 1.0	Level 0.5

technical parameters

Term	LWGY Turbine flow meter		
Measured medium	Impurity-free, low-viscosity, non-corrosive liquid		
Implementation standards	Turbine flow sensor（JB/T9246-2016）		
Verification procedure	Turbine flow meter（JJG1037-2008）		
Instrument diameter and connection method	Flange connection type：DN15-DN200； Threaded connection type：DN4-DN50；		
	Clamping connection type：DN4-DN200；Tri-clamp connection type：DN4-DN100；		
Flange standard	General standard	HG/T 20592-2009	
	Other standards	International pipe flange standards	Such as German Standard DIN, American Standard ANSI, Japanese Standard JS
		Domestic pipe flange standards	Such as standards of the Ministry of Chemical Industry, standards of the Ministry of Machinery Industry
Thread specifications	Standard specifications	British standard pipe thread (external thread)	
	Other specifications	Female thread, spherical thread, NPT thread, etc.	
Accuracy class and corresponding repeatability	Accuracy class*1	±1%R	±0.5%R ±0.2%R（Customization）
	Repeatability	⩽0.33%	⩽0.17% ⩽0.07%
Range ratio	Frequency decimal point	10:1-20:1	
Verification conditions	Verification device	Standard gauge method liquid flow rate verification device;	
		static mass method liquid flow rate verification device	
	Environmental conditions	Ambient temperature: 20℃; Relative humidity: 65%	
Usage conditions	Medium temperature	Standard configuration: -20°C~80°C; T: -40°C~180°C	
	Ambient temperature	-20℃~60℃	
	Relative humidity	5%~90%	
	Atmospheric pressure	86Kpa~106Kpa	
Output function	Signal output	Pulse signal, 4-20mA signal	
	Communication output	RS485 communication, HART protocol	
Working powe supply	External power supply	+24VDC, suitable for 4-20mA output, pulse output, RS485, etc.	
	Internal power supply	CM0, CM2, CM3, CM4 (1 set of 3.6V 19Ah lithium batteries)	
Signal line interface	N Type	Hossmann connector DIN43650 or aviation plug CX165P	
	Full series	Metal waterproof coil internal thread M20×1.5	
Explosion-proof rating	ExdIIC T6 Gb		
Protection rating	IP65 or higher (customizable)		

LCD Turbine Flow Meter Model Intro

Display type - threaded connection	Display type - clamp connection	Display type - flange connection
		

Model	CM0	CM1	CM2	CM2H	CM3	CM4	CM5	CM6
Power supply method	3.6V lithium battery	24VDC				3.6V lithium battery 24VDC	24VDC	
Output signal	/	Pulse	4-20mA	4-20mA /Hart	RS485	Pulse 4-20mA RS485	0-10V	0-5V
Accuracy level	Level 0.5 / Level 1.0		Level 1.0		Level 0.5 / Level 1.0		Level 1.0	
Connection method	Male/female thread; clamp; flange							

Color screen turbine Flow Meter Model Intro

Display type - threaded connection	Display type - clamp connection	Display type - flange connection
		

Model	GM2	GM2/4	GM3	GM4	GM4/4
Power supply method	24VDC				
Output signal	Pulse/4-20mA (Three-wire or four-wire system)	Pulse/4-20mA (Isolation four-wire system)	Pulse RS485	Pulse/RS485 4-20mA (Three-wire or four-wire system)	Pulse/RS485 4-20mA (Isolation four-wire system)
Accuracy level	Level 0.5 / Level 1.0				
Connection method	Male/female thread; clamp; flange				

Non-displaying turbine flow meter introduction

Hessmann connector



Model	N1	V2	V3	A1	D
Power supply method	12~24VDC			24VDC	
Output signal	Pulse	0~10V	0~5V	4~20mA	RS485
Accuracy level	Level 0.5 / Level 1.0	Level 1.0			Level 0.5 / Level 1.0
Connection method	Male/female thread; clamp; flange				

Model	A1	A2 (Gray shell)	V	V1
Power supply method	24VDC		12~24VDC	
Output signal	4~20mA	4~20mA	0~10V	0~5V
Accuracy level	Level 1.0			
Connection method	Male/female thread; clamp; flange			

2088 header



Aviation connector



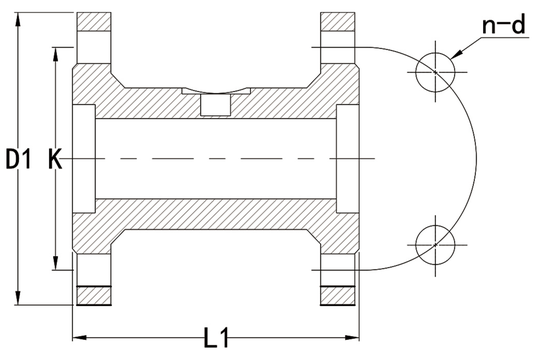
Waterproof connector



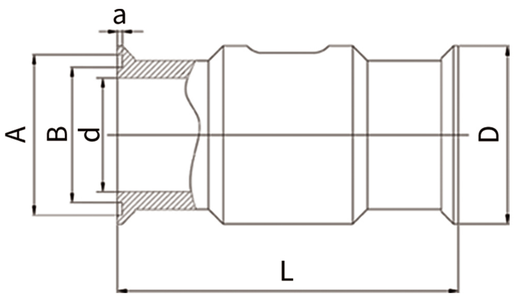
Model	N	FN
Power supply method	12~24VDC	
Output signal	Pulse	
Accuracy level	Level 0.5 / Level 1.0	
Waterproof rating	IP65	IP68
Connection method	Male/female threadt clamp; flange	

Flowmeter valve body model and dimensions

a	DN4-DN40	1mm
	DN50-DN80	1.5mm
	DN100	2mm

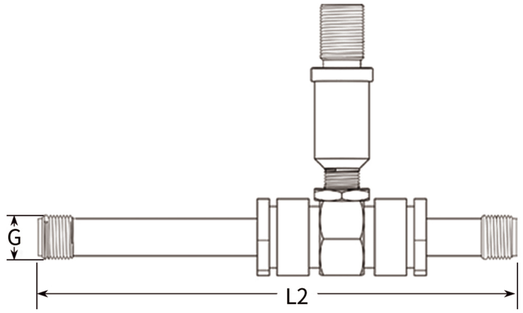


Flange valve body (DN15~DN200)

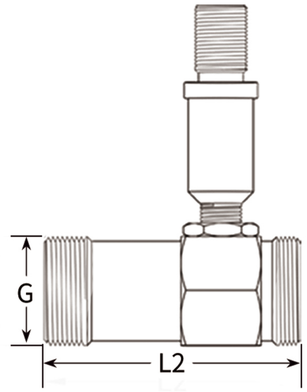


Sanitary valve body (DN4~DN100)

LCD Turbine Flow Meter Model Intro

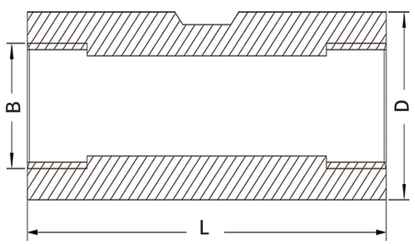


Small diameter male thread valve body (DN4~DN10)

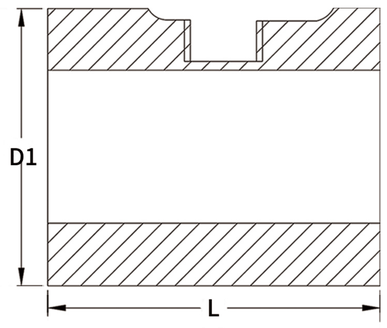


Male thread valve body (DN15~DN50)

Nominal diameter	Flange valve body					Male thread valve body		Sanitary clamp valve body				
	L1	D1	K	d	n (hole count)	L2	G (male thread)	D	A	B	d	L
DN4						225	G1/2	50.5	46	40.5	4	50
DN6						225	G1/2	50.5	46	40.5	6	50
DN10				/		345	G1/2	50.5	46	40.5	10	50
DN15	75	95	65	14	4	75	G1	50.5	46	40.5	15	100
DN20	85	105	75	14	4	85	G1	50.5	46	40.5	20	100
DN25	100	115	85	14	4	100	G5/4	50.5	46	40.5	25	100
DN32	140	140	100	18	4	140	G1-1/2	50.5	46	40.5	32	120
DN40	140	150	110	18	4	140	G2	64	59	53.5	40	140
DN50	150	165	125	18	4	150	G5/2	78	73.5	68	50	150
DN65	170	185	145	18	4	Customization supported		91	86	80.5	65	170
DN80	200	200	160	18	8			106	100.5	94	80	200
DN100	220	220	180	18	8			119	113	106	100	220
DN125	250	250	210	18	8			/				
DN150	300	285	240	22	8							
DN200	360	340	295	22	12							



Female thread valve body (DN4~DN50)



Flange clamp valve body (DN4~DN200)

Nominal diameter	Flange clamp valve body		Female thread valve body		
	D1	L	Thread specifications	L	D
DN4	38	50	G3/8	75	ϕ42
DN6	38	50	G3/8	75	ϕ42
DN10	38	50	G3/8	75	ϕ42
DN15	47	55	G1/2	100	ϕ43
DN20	54	60	G3/4	120	ϕ43
DN25	58	60	G1	120	ϕ49
DN32	66	70	G1 1/4	120	ϕ56
DN40	72	70	G1 1/2	120	ϕ60
DN50	92	70	G2	120	ϕ72
DN65	100	80	Larger diameters than DN50, customization supported.		
DN80	112	90			
DN100	137	100			
DN125	165	120			
DN150	190	150			
DN200	243	150			

ELECTROMAGNETIC FLOWMETER

The intelligent electromagnetic flowmeter employs a Chinese-English electromagnetic converter and utilizes a high-speed central processing unit. It boasts extremely fast calculation speed, high accuracy, and reliable measurement performance. The converter circuit has an input impedance of up to 750Ω, a common-mode rejection ratio (CMRR) of over 100dB, and a rejection capability of over 90dB for external interference and 60Hz/50Hz interference, enabling the measurement of fluid flow rates with lower conductivity. Its sensor employs non-uniform magnetic field technology and a special magnetic circuit structure, ensuring a stable and reliable magnetic field.

Due to its unique advantages, the electromagnetic flowmeter is widely used in industries such as chemical fiber, food, papermaking, sugar refining, mining and metallurgy, water supply and drainage, environmental protection, water conservancy and hydraulic engineering, steel, petroleum, and pharmaceuticals. It is used to measure the volumetric flow rate of various conductive liquid media, including acids, alkalis, salt solutions, mud, slurry, pulp, coal-water slurry, corn syrup, fiber slurry, grain slurry, lime milk, sewage, cooling water, water supply and drainage, brine, hydrogen peroxide, beer, wort, various beverages, black liquor, and green liquor.



Electromagnetic Heat Meter

Term	Electromagnetic heat meter parameters
Work mode	Heat meter mode: Only calculates heat, this is the instrument's default mode, "H" indicates heat;
	Cold meter mode: Only calculates cooling, "R" indicates cooling;
	Cold/Heat meter mode: Calculates both heat and cold meter readings, displaying them separately.
Nominal diameter	DN10~DN2000
Flow unit	L/s、L/m、L/h、m^3/s、m^3/m、m^3/h; Total unit: m^3, L
Cold/Heat units	MJ/h、GJ/h、KWh/h、MWh/h four options available; Total unit: MJ、GJ、KWh、MWh
Measuring damping time	In other words, the filtering time. A longer measurement damping time improves the stability of the instrument's flow display and output signal, making it suitable for measuring pulsating flow rates with total accumulation. A shorter measurement damping time results in a faster measurement response, making it suitable for production process control.
Flow direction selection	If the fluid direction during commissioning is inconsistent with the design, there is no need to change the connection of the excitation line or signal line; simply adjust the flow direction setting parameters.
Zero-point correction of flow	Zero-point correction should be performed only when the sensor tube is filled with fluid and the fluid is stationary. The flow rate zero point is expressed as flow velocity, with units of m/s.
small signal cutoff point	The small signal cutoff point setting is expressed in terms of flow rate. When a small signal is cut off, only the flow rate is displayed; the cutoff flow rate, percentage, and signal output are also shown.
Temperature difference signal removal	When the inlet and outlet temperature difference is lower than this setting, the instrument does not calculate heat or cold energy.
Reverse measurement prohibited	It features a reverse output disable function. When "disabled," heat and cooling are not calculated, there is no output, and only the flow rate is displayed. When "allowed," the heat meter functions normally. Since heat and cooling should not be calculated in the reverse flow direction in principle, the default setting is "disabled."
Output parameters	Current output: Flow rate, heat output, cooling output, hot/cold output, hot/cold status output, flow direction output
	Pulse output: Flow rate pulse, heat pulse, cooling pulse, hot/cold pulse
	Frequency output limit: Frequency corresponds to a percentage of flow rate output (not applicable to heat or cooling capacity), selectable range 1~5000.
	When measuring water temperature, both heat and cold meters will not calculate heat or cold capacity if the temperature is lower than the set temperature.
Temperature parameters	Operating pressure parameters: 0.6MPa and 1.6MPa are available.
	Inlet and outlet temperature zero point, temperature calibration: Three-wire bridge connection method for Pt1000 and Pt100 resistance thermometers.
	The RTD is available in both PT1000 and PT100 versions.

technical parameters

Term	Insertion electromagnetic flow meter parameters		
Nominal diameter (mm)	DN100~DN3000	Accuracy	1.5 rating
Dielectric conductivity	Greater than 50μs/cm	Operating pressure	1.6 MPa
Measuring tube material	ABS	Media temperature	0℃~60℃
Communication function	RS485 Modbus RTU protocol	Protection class	IP65 or IP68
Electrode material	SS316L , Hastelloy C/B, titanium, tantalum, platinum, etc.		
Output signal	4-20mA load resistance 0~500Ω; Frequency: 1~5KHz load resistance 250~1.2kΩ		

Term	Parameters of pipeline electromagnetic flow meter
Nominal diameter (mm)	Pipeline PTFE lining: DN10~DN500; Pipeline rubber lining: DN65~DN1200
Accuracy class	0.5 grade; 1.0 grade
Media temperature	Ordinary rubber lining: -20~+70℃; PTFE lining: -20~+120℃
Pressure rating	0.6MPa, 1.0MPa, 1.6MPa, 4.0MPa (higher pressures can be customized)
Flow measurement range	Flow measurement range corresponds to a flow velocity range of 0.5~5m/s
Conductivity range	Fluid conductivity ⩾50μs/cm, water conductivity in the range of 200-800μs/cm
Signal output	Pulse, 4-20mA, RS485
Digital frequency output	Frequency can be set within 1-5000Hz, external power supply ⩽35V, maximum collector current when conducting is 250mA
Power supply	220V, DC24V; battery powered
Connection method	Flanges, threads, clamps
Explosion-proof mark	Ex db mb IIC T6 Gb
Ambient temperature and humidity	-25°C~+60°C; 5%RH~95%RH
Total power consumption	＜20W

Material description

Electrode material	Corrosion resistance
Molybdenum-containing stainless steel (Ocr18Ni12Mo2Ti)	Nitric acid, sulfuric acid (<5% at room temperature), boiling phosphoric acid, formic acid, alkaline solutions, sulfurous acid under certain pressure, seawater, and acetic acid.
Hastelloy C, Hastelloy B (HC / HB)	Resistant to oxidizing acids, oxidizing salts, seawater, and non-oxidizing acids, salts, and alkalis; resistant to sulfuric acid at room temperature.
Titanium (Ti)	Seawater, various chlorides and hypochlorous acid, chlorinated acids (including fuming nitric acid), organic acids, and alkalis.
Tantalum (Ta)	All chemical media except hydrofluoric acid, fuming sulfuric acid, and alkalis, including hydrochloric acid (boiling point <175℃), and nitric acid.
Platinum (Pt)	Various acids, alkalis, and salts, excluding aqua regia.

* The electrode material should be selected according to the corrosiveness of the fluid being tested. Please refer to the relevant corrosion handbook. For special fluids, a test should be performed.

Lining material	Corrosion resistance	Medium temperature	Applicable media
Neoprene	1.Good elasticity, high tensile strength, and good wear resistance. 2.Resistant to corrosion from general low-concentration acids, alkalis, and salts; not resistant to corrosion from oxidizing media.	<80℃	Water/sewage/mildly abrasive mud, slurry
Polyurethane	1. Excellent wear resistance 2. Poor resistance to acid and alkali corrosion	<60℃	Neutral/highly abrasive slurries, coal slurries, and mud
Polytetrafluoroethylene (F4/PTFE)	1.Resistant to most chemical media, including boiling hydrochloric acid, sulfuric acid, nitric acid, and aqua regia; also resistant to concentrated alkalis and various solvents. Not resistant to corrosion from chlorine trifluoride, high-temperature oxygen trifluoride, high-flow-rate liquid fluorine, liquid oxygen, and ozone. 2.Less wear-resistant than polyurethane rubber, and less resistant to negative pressure than neoprene rubber.	<120℃	Highly corrosive media such as concentrated acids/alkalis Sanitary media
Teflon (F46/FEP)	1.Not resistant to fuming nitric acid and butyllithium; other chemical properties are basically the same as polytetrafluoroethylene (PTFE). 2. Higher resistance to negative pressure than PTFE.	<80℃	Highly corrosive media such as concentrated acids/alkalis/ hygienic media

Pipeline flow rate and velocity comparison table

flow (m^3/h) / Flow rate (m/s) / Caliber	0.5	1	1.5	2	2.5	3	4	5
DN10	0.141	0.283	0.424	0.564	0.707	0.848	1.131	1.414
DN15	0.318	0.636	0.954	1.28	1.59	1.909	2.55	3.181
DN20	0.565	1.131	1.696	2.3	2.83	3.39	4.52	5.655
DN25	0.884	1.767	2.651	3.6	4.42	5.3	7.07	8.836
DN32	1.448	2.9	4.343	5.8	7.24	8.69	11.58	14.48
DN40	2.262	4.52	6.79	9.2	11.31	13.57	18.1	22.62
DN50	3.534	7.07	10.6	14.4	17.67	21.21	28.27	35.34
DN65	5.973	11.95	17.92	24	29.87	35.84	47.78	59.73
DN80	9.048	18.1	27.14	36.8	45.24	54.29	72.38	90.48
DN100	14.14	28.27	42.41	56.8	70.69	84.82	113.1	141.37
DN125	22.11	44.18	66.268	90	110.45	132.54	176.72	220.89
DN150	31.81	63.62	95.43	127.8	159.04	190.85	254.47	318.09
DN200	56.55	113.1	169.65	228	282.74	339.29	452.39	565.49
DN250	88.36	176.72	265.07	360	441.79	530.14	706.86	883.57
DN300	127.23	254.47	381.7	512	636.17	763.41	1017.88	1272.35
DN350	173.18	346.31	519.54	700	865.9	1039.08	1385.44	1731.8
DN400	226.2	452.39	678.58	920	1130.97	1357.17	1809.56	2261.95
DN450	286.28	572.56	858.83	1160	1431.39	1717.67	2290.22	2862.78
DN500	353.43	706.86	1060.29	1413.72	1767.15	2120.58	2827.43	3534.29
DN600	508.94	1017.88	1526.81	2035.75	2544.69	3053.63	4071.5	5089.38
DN700	692.72	1385.44	2078.16	2770.86	3463.61	4156.33	5541.77	6927.21
DN800	904.78	1807.56	2714.34	3619.12	4523.89	5428.67	7238.23	9047.79

Insertion flow rate comparison table

flow (m^3/h) / Flow rate (m/s) / Caliber	0.1	0.2	0.4	0.5	1	5	10	12
DN100	2.83	5.65	11.31	14.14	28.27	141.37	282 7	339.24
DN125	4.42	8.84	17.67	22.09	44.18	220.89	441.8	530.16
DN150	6.36	12.7	25.5	31.81	63.62	318.09	636.2	763.44
DN200	11.3	22.6	45.2	56.55	113 1	565.49	1131	1357.2
DN250	17.7	35.4	70.7	88.36	176.7	883.57	1767	2110.4
DN300	25.46	51	102	127.24	254.5	1272.35	2545	3054
DN350	34.64	69	139	173.2	356.4	1731.8	3464	4156.8
DN400	45.24	90	181	226.2	452.4	2261.9	4524	5428.8
DN450	57.3	1 14	229	286.3	572.6	2862.8	5726	6871.2
DN500	70.7	141	283	353.4	706.9	35 34.3	7069	8484.8
DN600	102	203	407	508.9	1018	5089.4	10179	12216
DN700	139	277	554	692.7	1385	6927.2	13854	16620
DN800	1811	362	723	905	1810	9047.8	18096	21720
DN900	229	458	916	1145	2290	11451	22902	27480
DN1000	283	565	1131	1414	2827	14137	28274	33924
DN1200	407	814	1628	2035.8	4069.4	20358	40694	48832.8
DN1400	554	1108	2216	2770.9	5539.4	27709	55390	66468

JJ-LBG Electromagnetic flow meter model introduction

General-purpose electromagnetic flow meter



Lanshen electromagnetic flow meter



High-pressure electromagnetic flow meter



Insertion electromagnetic flow meter



Split-type electromagnetic flow meter



Split-type insertion electromagnetic flow meter



Electromagnetic heat meter



JJ-LEG Electromagnetic flow meter model introduction

Carbon steel electromagnetic flow meter



Stainless steel electromagnetic flow meter



High-pressure electromagnetic flow meter



Insertion electromagnetic flow meter



Split-type electromagnetic flow meter



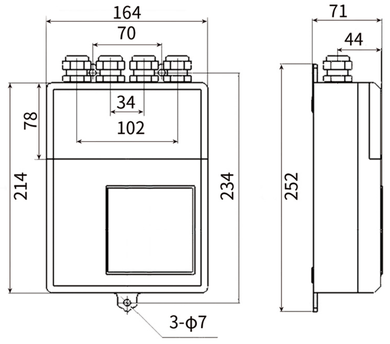
Split-type insertion electromagnetic flow meter



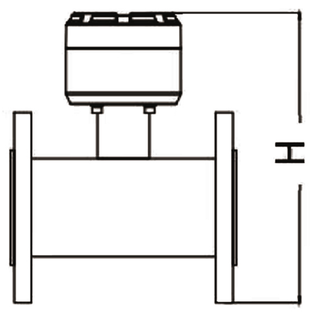
Electromagnetic heat meter



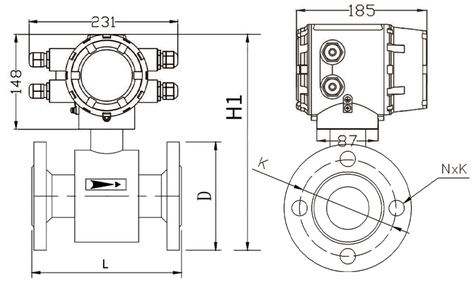
Pipeline electromagnetic flowmeter product dimensions



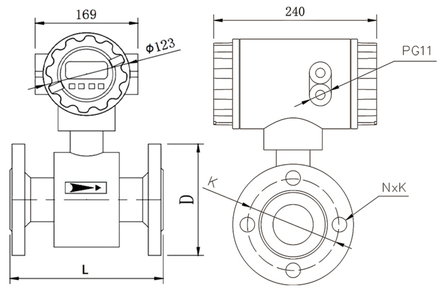
Square housing split-type external dimension drawing



Split-type inline flow meter dimension drawing



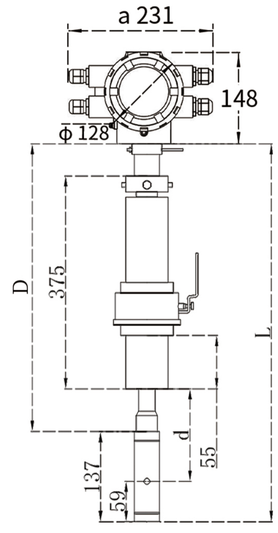
JJ-LEG inline flow meter dimension drawing



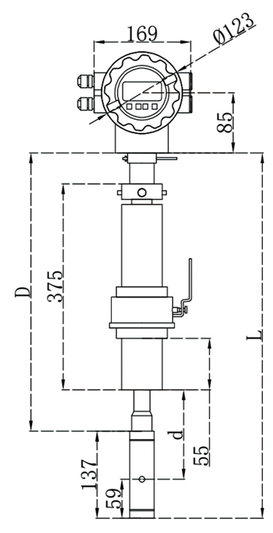
JJ-LBG inline flow meter dimension drawing

Nominal diameter	L	D	K	H	H1	Pressure rating (MPa)	Mounting holes (N×K)
DN10	200	90	60	220	315	4.0	4×14
DN15	200	95	65	220	315	4.0	4×14
DN20	200	105	75	220	315	4.0	4×14
DN25	200	115	85	220	315	4.0	4×14
DN32	200	140	100	220	315	4.0	4×18
DN40	200	150	110	220	315	4.0	4×18
DN50	200	165	125	225	320	4.0	4×18
DN65	200	185	145	225	350	1.6	4×18
DN80	250	200	160	275	365	1.6	8×18
DN100	250	220	180	285	380	1.6	8×18
DN125	250	250	210	315	410	1.6	8×18
DN150	300	285	240	345	440	1.6	8×22
DN200	350	340	295	400	495	1.6	12×22
DN250	450	395	350	465	560	1.6	12×22
DN300	500	445	400	505	600	1.0	12×22
DN350	550	505	460	575	670	1.0	16×22
DN400	600	565	515	625	720	1.0	16×26
DN450	600	615	565	670	765	1.0	20×26
DN500	600	670	620	725	820	1.0	20×26
DN600	600	780	725	835	930	1.0	20×30

Insertion electromagnetic flow meter product dimensions



JJ-LEG Insert integrated dimension drawing



JJ-LBG Insert integrated dimension drawing

Nominal diameter (mm)	d	D(mm)	L(mm)
DN100	1/2	550	690
DN150	1/2	550	690
DN200	1/2	550	690
DN250	1/2	550	690
DN300	1/2	550	690
DN350	1/2	550	690
DN400	1/4	550	690
DN450	1/4	550	690
DN500	1/4	550	690
DN600	1/4	550	690
DN700	1/4	700	840
DN800	1/4	700	840
DN900	1/4	700	840
DN1000	1/4	700	840

ULTRASONIC FLOWMETER

An ultrasonic flow meter is an instrument that measures fluid flow based on the propagation characteristics of ultrasonic waves. It requires no direct contact with the fluid (or only minimal contact), offering advantages such as non-invasiveness, high accuracy, no pressure loss, and wide applicability. It is widely used in petroleum, chemical, water conservancy, municipal water supply, and energy industries.

Ultrasonic flow meters require no pipe breaking or production shutdown for installation. The sensor is externally clamped, and only pipe parameters need to be input. When selecting an installation point, the following factors must be considered: full pipe, flow stability, scaling, temperature, pressure, and interference. The measured medium should be a single, stable liquid such as water, seawater, sewage, or alcohol, and the measured pipe material should be a homogeneous and dense material such as steel, stainless steel, cast iron, or PVC/fiberglass.



technical parameters

Term	UL Ultrasonic flow meter parameters
Measurement accuracy	Level 1.5
Repeatability	0.2%
Flow rate range	0.5~5m/s
Measurement principle	Ultrasonic propagation time difference principle, dual CPUs working in parallel, 4-byte floating-point arithmetic
Measurement cycle	500ms (twice per second)
Power supply	Isolation DC8-36V or AC85-264V
Signal input	Three 4-20mA analog inputs, capable of inputting signals such as pressure, liquid level, and temperature; two three-wire platinum resistance thermometers. One standard isolated RS485 output, and one isolated 4-20mA or 0-20mA output (active or passive selectable).
Signal output	Optional HART protocol; dual-channel isolated OCT output; One-channel bidirectional serial interface with universal peripheral interface for connecting 4-20mA, frequency signals, thermal printers, data loggers, etc.
Communication protocol	Modbus RTU protocol
Power consumption	Operating current 50mA (without keyboard or buzzer connection, no sound)
Sensor	External, plug-in, and conduit-type installations

Sensor specifications

Classification		Picture	Applicable pipe diameter	Fluid temperature	Size
External clamp sensor	21st Edition normal temperature type		Small size DN15—DN100	-30~70℃	45x25x28mm
			Medium size DN50—DN700		64x39x44mm
			Large size DN300—DN6000		97x54x53mm
	23st Edition normal temperature type		Small size DN15—DN100	-30~70℃	53.5×24.5×40.5mm
			Small size DN50—DN700		59.5×35.6×58.0mm
			Large size DN300—DN6000		91.5×52.5×74.5mm
	High temperature type		Small size DN15—DN100	-30~120℃	53.5×24.5×40.5mm
			Medium size DN50—DN700		59.5×35.6×58.0mm
			Large size DN300—DN6000		91.5×52.5×74.5mm
Insertion sensor			Standard type / Extended type DN50—DN6000	-30~160℃	/
			Parallel type DN200—DN6000		
Pipe section	Small caliber		Thread/Flange/Clamp DN15—DN40	-30~120℃	/
	Large caliber		Thread/Flange DN50—DN2000		

Ultrasonic flow meter models

21st Edition wall-mounted ultrasonic flow meter



21st Edition modular ultrasonic flow meter



Handheld ultrasonic flow meter



23st Edition wall-mounted ultrasonic flow meter



23st Edition modular ultrasonic flow meter



Piping type ultrasonic flow meter



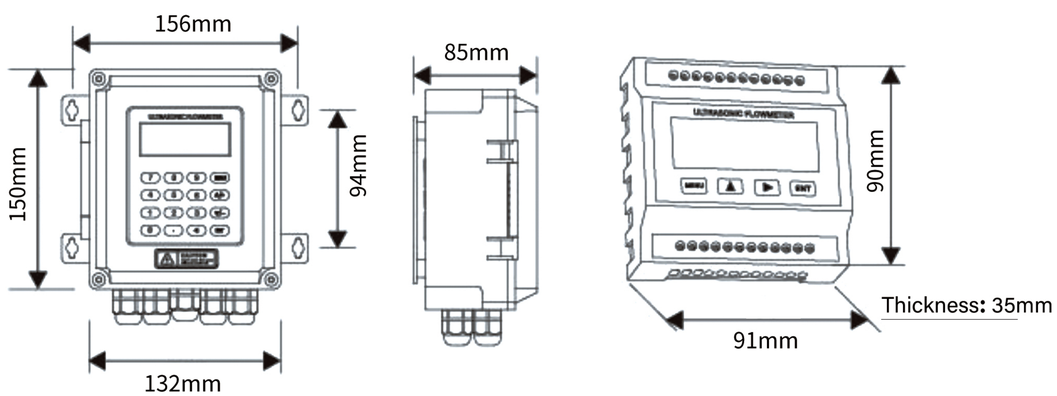
Disc-mounted ultrasonic flow meter



Integrated ultrasonic flow meter

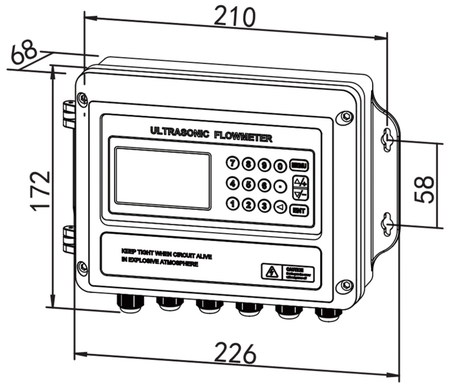


Product Size

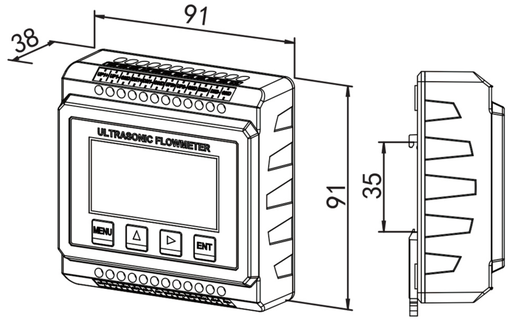


21st edition wall-mounted main unit dimensions

21st edition modular main unit dimensions

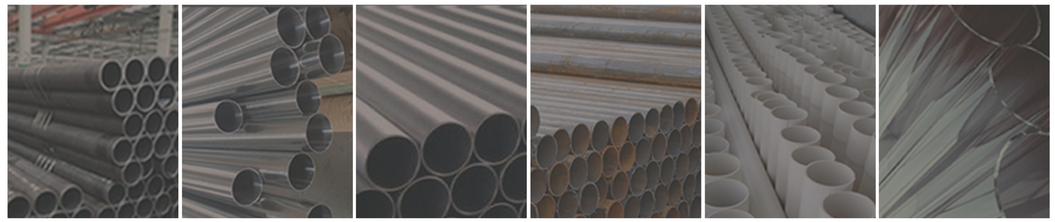


23st edition wall-mounted main unit dimensions



23st edition modular main unit dimensions

Applicable pipe materials



Steelpipe | Stainless steel pipe | Carbon steel pipe | Cast iron pipe | PVC pipe | Glass tube

CLAMP ON ULTRASONIC FLOWMETER

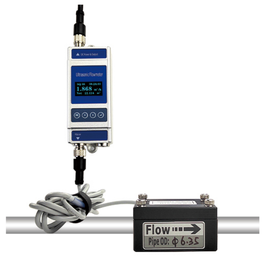
Focusing on minute flow measurement, this flow meter serves real-time flow measurement in production processes and participates in process control. It is primarily used in chemical production processes, fine chemical production, cleaning industries, and the beverage industry. Currently, the measurement chip achieves a time resolution of 50Ps, and this new generation of flow meter boasts stable performance. Operation is achieved through four buttons for parameter setting and modification. The structural design utilizes a circular magnet for automatic engagement during installation, taking only 2-3 minutes from installation to measurement. An OLED display ensures easy reading even in low-light conditions.



X3 Integrated clamp-type ultrasonic flow meter



X3 Split clamp-type ultrasonic flow meter



Q3 Peripheral card-type ultrasonic flow meter

technical parameters

Term	X3/Q3 Clamp-on ultrasonic flow meter parameters
Accuracy	±2.0% （±0.5m/s~5.0m/s）
Flow rate range	0.1m/s~5.0m/s
Repeatability	0.8%
Response time	500ms
Analog output	4~20mA，Maximum load 600Ω
Alarm output	OCT output, flow alarm output, cumulative pulse output (optional)
Communication interface	RS485, supports Modbus communication protocol
Power supply	24VDC@3W
Cable length	Standard length 2.0 meters, extendable to 20 meters
Buttons	Four touch-sensitive buttons
Display	1.3-inch OLED 128*64 display screen, 3.3Hz refresh rate (180-degree rotation for easy reading)
Measuring unit	You can choose between metric and imperial units, cubic meters (m^3), liters (L), and US gallons (GAL), and specify the unit as hour or minute. The default unit setting is m^3/h.
Data storage	Data accumulated over days, months, and years can be stored for up to 10 years without loss.
Applicable media	Water, seawater, oil, chemicals, etc.
Suitable pipe materials	Carbon steel pipes, stainless steel pipes, plastic pipes, brass pipes, etc.
Shell material	Aluminum alloy
Ambient temperature/ humidity	-10°C~50°C；0~95% relative humidity, non-condensing.
Media temperature	-10°C~50°C
Suitable viscosity	＜300CST（mm2/s）
Protection level	IP54/IP68

X3 Series ultrasonic flow meter flow range

Model	Outer diameter of plastic pipe (mm)	Nominal pipe diameter (metric DN)	Nominal pipe diameter (Imperial NPS)	Outer diameter range (mm)	Flow range (L/min)	Flow range (m^3/h)
X3-9.53	Φ9.53	DN6	1 point	9-15	0.2-20	0.01-1
X3-12.7	Φ12.7	DN8	2 points	9-15	0.44-30	0.03-2
X3-15	Φ15	DN10	3 points	15-21	0.57-50	0.03-3
X3-20	Φ20	DN15	4 points	15-21	0.92-70	0.06-4
X3-25	Φ25	DN20	6 points	21-28	1.36-150	0.08-10
X3-32	Φ32	DN25	1 inch	28-36	2.71-200	0.16-15
X3-40	Φ40	DN32	1.2 inch	36-44	4.24-330	0.25-20
X3-50	Φ50	DN40	1.5 inch	44-52	6.8-460	0.41-30
X3-63	Φ63	DN50	2 inch	52-66	9.54-700	0.57-40
X3-75	Φ75	DN65	2.5 inch	66-80	14.8-1030	0.89-60
X3-90	Φ90	DN80	3 inch	80-95	21.8-1360	1.31-80
X3-110	Φ110	DN100	4 inch	100-115	36.5-2170	2.19-130

Q3 Series ultrasonic flow meter flow range

Model	Measuring range	Accuracy	Outer diameter of the pipe	Tube inner diameter
Q3-ϕ6.35	0-6500ml/min	0-300ml/min：±8ml/min	1/4″ (6.35mm)	1/8″ (4.3mm)
		300-6500ml/min：±2%		
Q3-ϕ8	0-9200ml/min	0-400ml/min：±8ml/min	5/16″ (7.9mm)	1/4″ (6.4mm)
		400-9200ml/min：±2%		
Q3-ϕ9.53	0-12600ml/min	0-600ml/min：±6ml/min	3/8″ (9.53mm)	5/16″ (7.9mm)
		600-12600ml/min：±2%		
Q3-ϕ12.7	0-17000ml/min	0-1000ml/min：±6ml/min	1/2″ (12.7mm)	3/8″ (9.5mm)
		1000-17000ml/min：+2%		

Flow meter installation and wiring

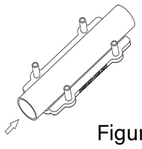


Figure 1

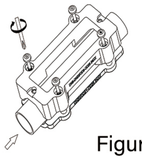


Figure 2

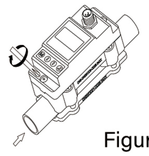


Figure 3

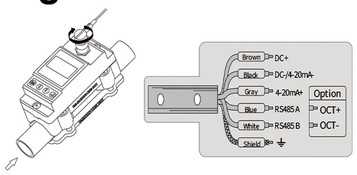
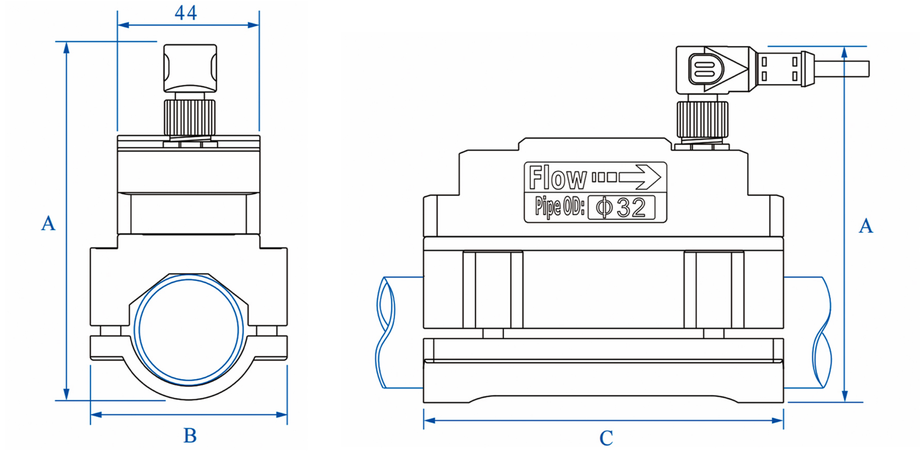


Figure 4

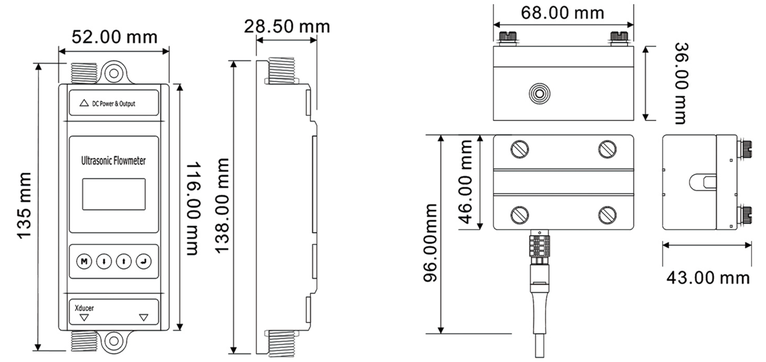
1. Ensure the pipe surface is free of dust, paint, or other contaminants. Rough metal pipe surfaces require polishing. Then place the lower clamp on the side of the pipe. (Figure 1)
2. Align the upper clamp with the lower clamp; the clamps will automatically engage (built-in magnet). Tighten the top screw until the clamps securely hold the pipe. (Figure 2)
3. Insert the flow meter into the upper clamp (ensuring the coupling pad doesn't fall off), then tighten the screws at both ends. Installation is complete. (Figure 3)
4. Remove the connecting cable. Screw the plug end into the flow meter's socket. It should insert easily when the cable exits in the correct direction (the cable's exit direction should align with the downstream direction). Tighten. Then connect to a DC power supply; the flow meter will begin measuring. (Figure 4)

Product size



End face view　　Side view

X3 Ultrasonic flow meter dimensions



Q3 Ultrasonic flow meter dimensions

Model	Nominal pipe diameter (Metric)	Nominal pipe diameter (Imperial)	Outer diameter range (mm)	A （Max) (mm)	B (mm)	C (mm)
X3-9.53	DN6	1/8 inch	9-15	98	54	106
X3-12.7	DN8	1/4 inch	9-15	98	54	106
X3-15	DN10	3/8 inch	15-21	95	54	106
X3-20	DN15	1/2 inch	15-21	95	54	106
X3-25	DN20	3/4 inch	21-28	103	54	106
X3-32	DN25	1 inch	28-36	111	62	106
X3-40	DN32	1.2 inch	36-44	119	70	106
X3-50	DN40	1.5 inch	44-52	127	78	106
X3-63	DN50	2 inch	52-66	144	92	130
X3-75	DN65	2.5 inch	66-80	158	106	136
X3-90	DN80	3 inch	80-95	173	121	150
X3-110	DN100	4 inch	100-115	193	141	174

*The above is the measurable flow range (0.1m/s-5.0m/s), while the accurate flow range is based on (0.5m/s-5.0m/s).

MINI VORTEX FLOWMETER

The Mini Vortex Flow Meter is a flow measurement instrument based on the Karman vortex street effect, primarily used for measuring fluid flow in small-diameter pipes. Its working principle is that when fluid flows through a non-streamlined vortex generator, it generates regular vortices alternating on both sides; this vortex pattern is called the Karman vortex street. The vortex separation frequency is proportional to the fluid velocity. The sensor detects this frequencvy and, combined with the pipe cross-sectional area, calculates the fluid flow rate.

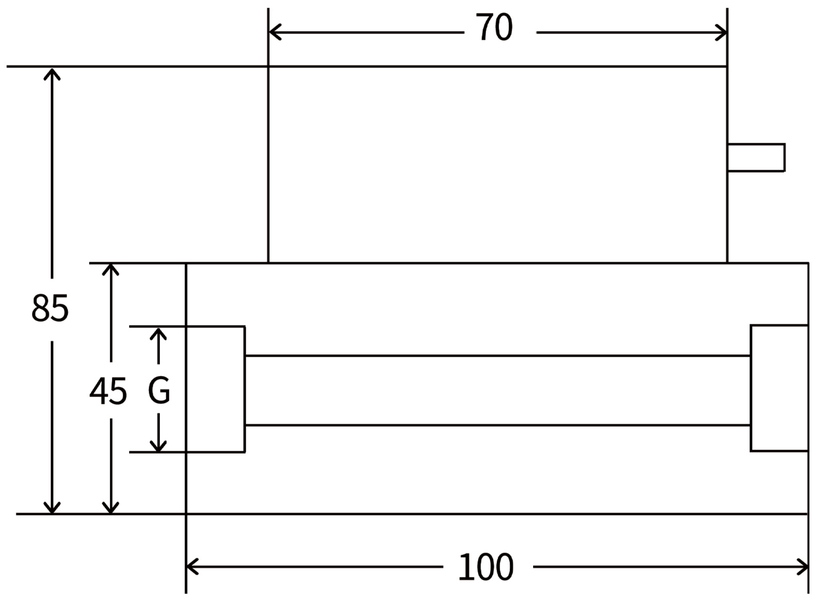
The flow meter features high accuracy, a wide rangeability, simple structure, low pressure loss, and diverse output signals; it is widely used in laboratory analysis, medical fluid control, and micro-metering of food additives.



technical parameters

Term	MNLUBG Mini vortex flow meter parameters				
Nominal diameter (mm)	DN8	DN10	DN15	DN20	DN25
Flow range (m^3/h)	/	/	0.2~6	0.3~9	0.5~15
Critical flow rate (m^3/h)	/	/	0.35	0.6	0.8
Measuring medium and temperature	Liquid；≤80℃				
Pressure rating	1.6MPa				
Material	Valve body: 304 stainless steel; Sensor: PPS; Display housing: Aluminum				
Accuracy	±1.5%		±2.0%		±3.0%
Range ratio	10:1		20:1		30:1
Power supply	12~24VDC				
Output	4-20mA & RS485				
Protection class	IP65				
Environmental conditions	-20~55℃；Relative humidity：5~95%；Atmospheric pressure：86~106Kpa				
Display	LCD display				
Electrical interface	5-hole aviation connector				
Connection method	G1/4	G3/8	G1/2	G3/4	G1
Total length/height (mm)	Overall length: 100; Overall height: 85/45				
Wiring	Brown: 24V+, Blue: 24V-, Gray: 4~20mA+, White: A, Black: B				

Product size Unit：mm



Mini vortex flow meter size diagram

MINI TURBINE FLOW METER

The LTFM series is a velocity-type instrument based on the principle of conservation of angular momentum. When liquid flows through the sensor, it drives the impeller to rotate. Within a specific flow range, the impeller speed and flow velocity are linearly related. Through electromagnetic induction or photoelectric conversion, the rotational signal is converted into electrical pulses, which are then processed by an adapter circuit to output instantaneous and cumulative flow rates. This instrument boasts significant advantages: accuracy of 0.2–1.0 grade, millisecond-level response speed, wide rangeability (1:10–1:20), small size, low pressure loss, and support for both horizontal and vertical installation (straight pipe sections are required). Due to its stable performance and strong adaptability, it is widely used in industries such as petrochemicals, metallurgy, power, water supply and drainage, and food and beverage, and is suitable for flow measurement of clean, low-viscosity liquids such as water, ethylene glycol, and methanol.



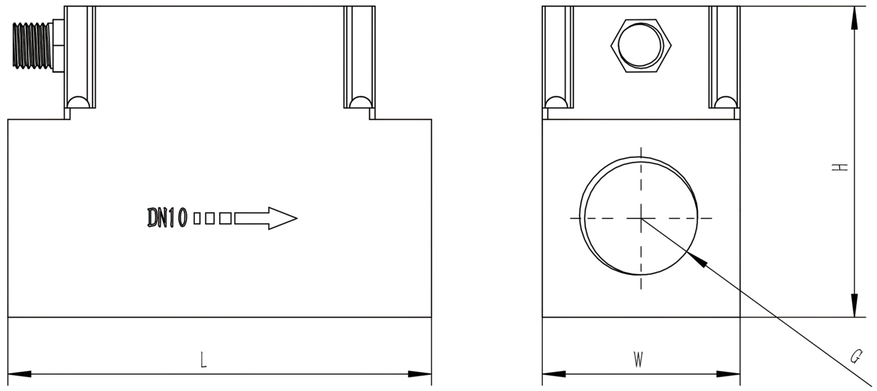
technical parameters

Term	Dimension Drawing of Mini Turbine Flow Meter
Nominal pressure	0KPa~1000KPa
Ambient temperature	-20~65℃
Medium temperature	-60~100℃
Materials used	304 stainless steel / 316 stainless steel
Flow range	0.5~666L/min, depending on the pipe size.
Accuracy	＜±1% F.S（flow rate）
Repeatability	<0.3%
Range ratio	1:10， 1:20
Connection method	Threaded/Flanged/Clamping
Power supply	24VDC
Output signal	Three-wire pulse, three-wire 4-20mA, RS485 output.
Protection class	IP65
Measuring medium	Liquid
Transmission distance	Pulse output ≤300m, 4-20mA output ≤1200m, load resistance ≤500Ω (24V), RS485 output ≤1000m.

Flow range

Caliber	Flow range（L/m）	Frequency range（Hz）	Instrument coefficient（P/L）
DN4	0.5-5	166-1666	20000
DN6	1-10	213-2130	12800
DN10	3.3-33	81-810	1460
DN15	10-100	146-1460	880
DN20	13.3-133	86-860	390
DN25	16.6-166	55-550	198
DN32	25-250	70-700	170
DN40	33.3-333	38-380	68.5
DN50	66.6-666	30-300	27.5

Product size （Unit：mm）



Dimension Drawing of Mini Turbine Flow Meter

Caliber	Length（L）	Height （H）	Width（W）	Thread size（G）
DN4	80	55	35	G1/2
DN6	80	55	35	G1/2
DN10	80	55	35	G1/2
DN15	100	55	35	G1/2
DN20	120	60	40	G3/4
DN25	120	65	45	G1
DN32	120	75	55	G1 1/4
DN40	120	80	60	G1 1/2
DN50	120	90	70	G2

OVAL GEAR FLOWMETER

Gear flow meters are volumetric metering instruments used for continuous or intermittent measurement and control of liquid flow in pipelines. They offer numerous advantages, including a wide measuring range, high accuracy, low pressure loss, strong viscosity adaptability, ability to measure high-temperature and high-viscosity liquids, convenient calibration, and easy installation. They are suitable for flow measurement in industries such as petroleum, chemical, chemical fiber, transportation, commerce, food, and pharmaceuticals.

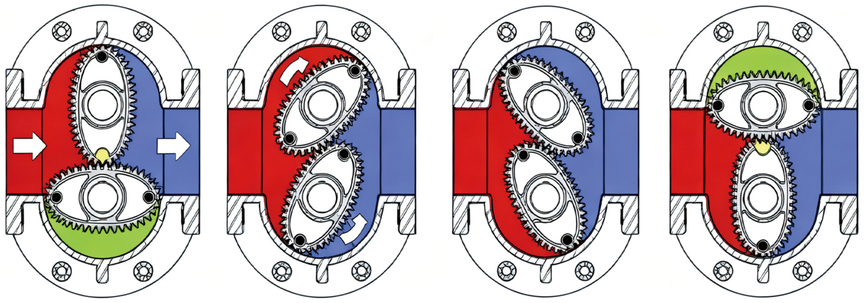
The LC series gear flow meters are equipped with a pointer and accumulator wheel, allowing for direct on-site display of the accumulated flow rate of the liquid flowing through the pipeline. Adding a transmitter to the counting mechanism and pairing it with an electronic display instrument enables centralized remote control of accumulated, quantitative, and instantaneous flow rates. Adding a radiator or a partially toothed elliptical gear allows for the measurement of high-temperature and high-viscosity liquids. Different materials can be selected for the flow meter body to manufacture different types of liquids (acids, alkalis, salts, organic solutions, etc.).



technical parameters

Term	Oval Gear Flowmeter parameters
Diameter (mm)	DN10~DN200
Connection method	Flange connection, threaded connection
Accuracy class	Level 0.5（Level 0.2 requires customization.）
Range ratio	1：5；1：10
Instrument material	Body: Cast iron, cast steel, stainless steel; Gears: Cast iron, stainless steel
Environmental conditions	Temperature: -20℃ ~ +60℃; Relative humidity: 5% ~ 90%
Medium temperature	-20℃~+80℃；+100℃~+200℃
Operating power supply	External power supply: 12/24VDC±15%, suitable for 4~20mA; pulse
Signal output	Pulse；4~20mA；RS485
Protection class	IP65
Explosion-proof class	Exd IIC T6 Gb

Working principle



The metering chamber consists of a pair of elliptical gears and a cover plate forming a crescent-shaped cavity as the unit of flow measurement. The elliptical gears are driven to rotate by the pressure difference between the inlet and outlet of the flow meter, thereby continuously conveying liquid through the crescent-shaped cavity to the outlet. The amount of liquid flowing through the crescent-shaped cavity per revolution is four times that of the cavity. The total number of revolutions of the elliptical gears and the speed of rotation are transmitted to the counting mechanism or transmitter through a sealed coupling, so that the total amount of liquid and the instantaneous flow rate through the pipeline can be known.

Standard technical parameters & flow range

Model	LC—A Cast iron type	LC-B Stainless steel type	LC—E Cast steel type
Nominal pressure Mpa	1.6	1.6、2.5、4.0、6.3	1.6、2.5、4.0、6.3
Temperature range	Standard analog pointer type: -20~+80°C; High-temperature analog pointer type: -20~+200°C;		
	Standard LCD type: -20~+60°C; High-temperature LCD type: -20~+150°C;		
Accuracy level	0.5%		
Viscosity of the Tested Liquid	0.6 - 2mPa.s	2 - 200mPa.s	
Caliber（mm）	Flow range（m^3/h）	Flow range（m^3/h）	
DN 10	0.2-0.4	0.08-0.4	
DN 15	0.6-1.5	0.3-1.5	
DN 20	0.8-3	0.6-3	
DN 25	1.2-6	0.8-6	
DN 40	5-15	3-15	
DN 50	6-24	4-24	
DN 65	10-40	8-40	
DN 80（Light type）	10-40	8-40	
DN 80（Heavy type）	15-60	10-60	
DN 100	30-100	15-100	
DN 150	45-190	34-190	
DN 200	68-340	56-340	

High Viscosity Tech Parameters &Flow Range

Model	LC-NA Cast iron high viscosity type	LC-NE Cast steel high-viscosity type	LC-NB Stainless Steel high-viscosity type
Nominal pressure Mpa	1.6	1.6、2.5、4.0、6.3	1.6、2.5、4.0、6.3
Temperature range	Standard analog pointer type: -20~+80°C; High-temperature analog pointer type: -20~+200°C;		
	Standard LCD type: -20~+60°C; High-temperature LCD type: -20~+150°C;		
Accuracy level	0.5%		
Viscosity of the Tested Liquid	200 - 1000mPa.s	1000 - 2000mPa.s	
Caliber（mm）	Flow range（m^3/h）	Flow range（m^3/h）	
DN 10	0.04 - 0.3	0.03 - 0.2	
DN 15	0.2 - 1.0	0.1 - 0.7	
DN 20	0.4 - 2.1	0.25 - 1.5	
DN 25	0.6 - 4.2	0.6 - 3	
DN 40	2.1 - 10.5	1.0 - 7.5	
DN 50	2.4 - 16.8	2 - 12	
DN 65	6 - 28	4 - 20	
DN 80（Light type）	6 - 28	4 - 20	
DN 80（Heavy type）	8 - 42	6 - 30	
DN 100	10 - 70	10 - 50	
DN 150	27 - 133	19 - 95	
DN 200	48-238	34 - 170	

High Precision Tech Parameters &Flow Range

Model	LC—A Cast iron type	LC-B Stainless steel type	LC—E Cast steel type
Nominal pressure Mpa	1.6	1.6、2.5、4.0、6.3	1.6、2.5、4.0、6.3
Temperature range	Standard analog pointer type: -20~+80°C; High-temperature analog pointer type: -20~+200°C;		
	Standard LCD type: -20~+60°C; High-temperature LCD type: -20~+150°C;		
Accuracy level	0.2%		
Viscosity of the Tested Liquid	0.6 - 2mPa.s	2 - 200mPa.s	
Caliber（mm）	Flow range（m^3/h）	Flow range（m^3/h）	
DN 10	/	0.2 - 0.4	
DN 15	/	0.5 - 1.5	
DN 20	1.5 - 3	1 - 3	
DN 25	3 - 6	1.2 - 6	
DN 40	8 - 15	5 - 15	
DN 50	12 - 24	8 - 24	
DN 65	20 - 40	10 - 40	
DN 80（Light type）	20 - 40	10 - 40	
DN 80（Heavy type）	30 - 60	15 - 60	
DN 100	40 - 100	20 - 100	
DN 150	90 - 190	56 - 190	
DN 200	170 - 340	68 - 340	

High viscosity, high precision technical parameters & flow range

Model	LC-NA Cast iron high viscosity type	LC-NE Cast steel high-viscosity type	LC-NB Stainless Steel high-viscosity type
Nominal pressure Mpa	1.6	1.6、2.5、4.0、6.3	1.6、2.5、4.0、6.3
Temperature range	Standard analog pointer type: -20~+80°C; High-temperature analog pointer type: -20~+200°C;		
	Standard LCD type: -20~+60°C; High-temperature LCD type: -20~+150°C;		
Accuracy level	0.2%		
Viscosity of the Tested Liquid	200 - 1000mPa.s	1000 - 2000mPa.s	
Caliber（mm）	Flow range（m^3/h）	Flow range（m^3/h）	
DN 10	0.08 - 0.3	0.06 - 0.2	
DN 15	0.3 - 1.0	0.2 - 0.7	
DN 20	0.6 - 2.1	0.5 - 1.5	
DN 25	1 - 4.2	0.8 - 3	
DN 40	3 - 10.5	2 - 7.5	
DN 50	4 - 16.8	3 - 12	
DN 65	8 - 28	6 - 20	
DN 80（Light type）	8 - 28	6 - 20	
DN 80（Heavy type）	10 - 42	8 - 30	
DN 100	15 - 70	12-50	
DN 150	34 - 133	30 - 95	
DN 200	56 - 238	50 - 170	

Flow meter model

Pointer basic type



Pointer reset type



Pointer reset type



Pointer basic type



Encapsulated high-temperature pointer type



High-temperature zero-reset type



Stainless steel pointer reset type



Stainless steel high-temperature pointer output type



Stainless steel jacketed high-temperature output type



LCD display output type



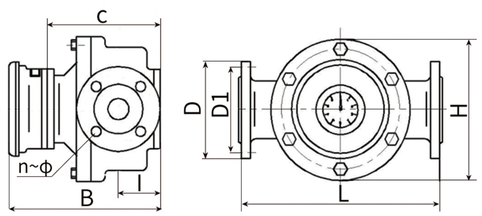
Stainless steel LCD explosion-proof type



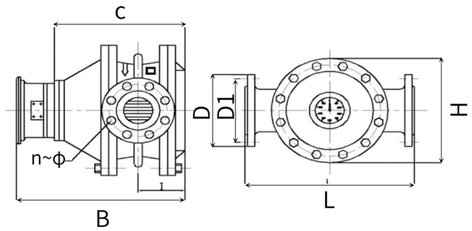
LCD explosion-proof type



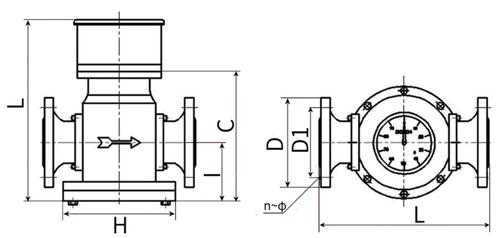
Product size Unit：mm



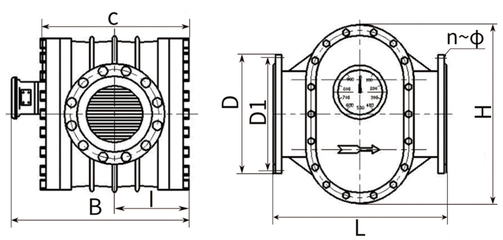
DN10~DN50（light type）



DN50（heavy type）~ DN100



DN65/DN80（light type）



DN150 ~ DN200

Cast iron flow meter external dimensions

DN (mm)	L (mm)	H (mm)	B (mm)	C (mm)	I (mm)	D (mm)	D1 (mm)	N	ϕ (mm)
10	150	100	210	120	45	90	60	4	14
15	170	118	226	136	48	95	65	4	14
20	200	150	238	148	53	105	75	4	14
25	260	180	246	156	60	115	85	4	14
40	245	180	271	181	77	145	110	4	18
50(light type)	290	218	310	220	80	160	125	4	18
50(heavy type)	340	250	372	230	88	160	125	4	18
65	325	245	320	220	90	180	145	4	18
80(light type)	325	245	320	220	90	195	160	8	18
80(heavy type)	420	325	433	253	118	195	160	8	18
100	515	418	458	278	131	215	180	8	18
150	540	515	557	377	210	280	240	8	23
200	650	650	624	444	247	335	295	12	23

*Model: LC-A, LC-NA (High temperature type: DN50 light and below B plus 100mm, DN50 heavy and above B plus 160mm).

Cast steel flow meter external dimensions

DN (mm)	L (mm)	H (mm)	B (mm)	C (mm)	I (mm)	D (mm)	D1 (mm)	N	ϕ (mm)
10	150	100	212	120	45	90	60	4	14
15	200	138	232	142	53	95	65	4	14
20	250	164	250	150	63	105	75	4	14
25	300	202	252	162	68	115	85	4	14
40	300	202	293	203	83	150	110	4	18
50(light type)	320	220	325	235	85	160	125	4	18
50(heavy type)	384	262	394	394	88	160	125	4	18
65	350	260	365	275	100	180	145	4	18
80(light type)	350	260	365	275	100	200	160	8	18
80(heavy type)	450	337	452	272	118	200	160	8	18
100	555	442	478	298	131	220	180	8	18
150	540	510	557	377	210	285	240	8	23
200	650	650	624	436	247	340	295	12	23

* Model: LC-E, LC-NE (High-temperature type: DN50 light-duty and below, B plus 100mm; DN50 heavy-duty and above, B plus 160mm).
* Flange size is 1.6MPa standard; (Length and flange size can be customized).

Stainless steel flow meter external dimensions

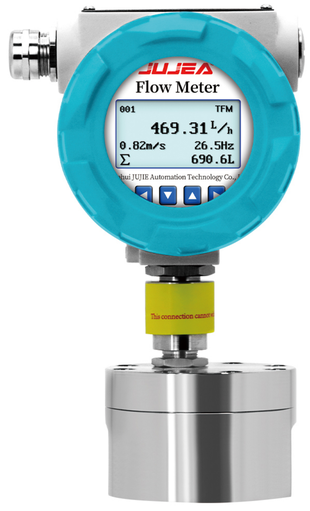
DN (mm)	L (mm)	H (mm)	B (mm)	C (mm)	I (mm)	D (mm)	D1 (mm)	N	ϕ (mm)
10	150	100	212	120	45	90	60	4	14
15	200	120	226	132	48	95	65	4	14
20	230	150	238	148	58	105	75	4	14
25	260	180	246	156	64	115	85	4	14
40	265	180	271	181	77	150	110	4	18
50	265	180	290	200	92	165	125	4	18
65	365	260	400	310	125	180	145	4	18
80(light type)	350	260	365	275	125	200	160	8	18
80(heavy type)	420	325	443	263	118	200	160	8	18
100	515	418	468	288	131	220	180	8	18

*LC-B type stainless steel oval gear flow meter dimensions (unit: mm) (High temperature type: DN50 light type and below, B plus 100mm; DN50 heavy type and above, B plus 160mm)
*Flange size is 1.6MPa standard; (Length and flange size can be customized);
*High temperature type oval gear flow meter dimensions: DN15~DN50 (light type), B size is based on the data in the table above plus 100mm heat extension tube; DN50 (heavy)~DN200, B size is based on the dimensions in the table above plus 160mm heat extension tube, other dimensions are the same as the corresponding dimensions in the table above.

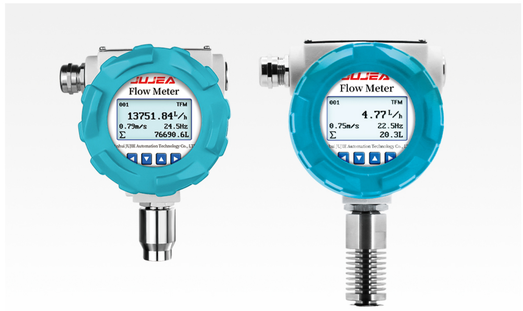
CIRCULAR GEAR FLOWMETER

Circular gear flow meters are a type of positive displacement flow transmitter. They are used for precise, continuous, or intermittent measurement of the flow rate or instantaneous flow rate of liquids in pipelines. They are suitable for measuring the flow rate of high-viscosity media such as heavy oil, polyvinyl alcohol, and resins, and can accurately measure even minute flow rates.

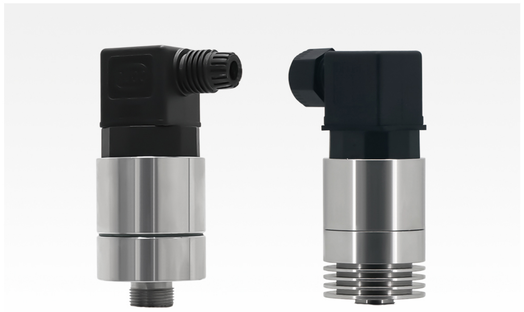
As the medium flows, the gears mesh and rotate. Under the action of the fluid flow, a pressure difference is formed between the inlet and outlet of the instrument. No power supply is required. A pair of gears rotates freely, and the cavity between the gears is filled with liquid. The liquid is discharged with the rotation. By measuring the number of gear rotations, the flow rate of the liquid flowing through the instrument can be determined. Gear transmitters are manufactured with high precision and are precisely installed. The rotation of the gears is scanned non-contactly, with each tooth generating a pulse, resulting in high resolution. Gear transmitters can measure very small flow rates and quantitatively measure small volumes of liquid.



technical parameters



Digital display sensor / Digital display high temperature sensor



No display sensor / No display high temperature sensor

Power supply voltage	9-26VDC	Reverse power connection protection	Have
Ambient temperature	-20℃-70℃	Protection level	IP65
Probe operating temperature	-20℃-80℃； -40℃-180℃（High temperature type）		

No display sensor parameters		Display-type sensor parameters			
Output type	4-20mA；1-5V&2-10V	Output type	Pulse (push-pull, three-wire); 4-20mA (two-, three-, four-wire); Dual-channel switch output (high/low flow alarm, relay); RS485 supports Modbus-RTU protocol		
Electrical interface	M12*1 connector; Hirschmann connector; M20*1.5 metal explosion-proof connector	Electrical interface	M12*1 connector (with 2-meter cable)	Display	LCD backlight display
No-load current	Voltage output type: 8mA; Current output type: 10mA	Unit resolution	0.001	Accuracy	±0.5% read value
		No-load current	Current output type: 20mA	Repeatability	0.1%
		Accuracy	±0.5% reading	Casing material	Aluminum alloy

Flow range

Model	Measurement range L/h	K coefficient P/L	Pressure（Bar）		Interface	Filter diameter（μm）	
			AL	SS304		Rolling bearings	Sliding bearings
GF02	0.6-50	11200	50	100	G1/4	20	40
GF04	5-250	4780	50	100	G3/8	20	40
GF06	10-500	3468	50	100	G1/2	20	40
GF10	20-1200	2780	50	100	G1/2	20	40
GF15	200-3000	334	50	100	G3/4	20	150
GF20	300-4500	450	50	100	G3/4	20	150
GF25	1000-12000	59	50	100	G1	100	150
GF32/40	2000-20000	39	50	100	G1-1/4	100	150

Model introduction

Non-display normal-temperature type / Non-display high-temperature type



Model	N	A
Power supply method	24VDC	24VDC
Output signal	Pulse	4-20mA
Valve body material	304/316 Stainless Steel Aluminum Alloy/ PTFE	304/316 Stainless Steel Aluminum Alloy/ PTFE
Connection method	Thread/Flange Clamp/Socket	Thread/Flange Clamp/Socket

Model	M0	M2	M3	M4
Power supply method	3.6V battery powered	24VDC	24VDC	24VDC
Output signal	None	4-20mA	Pulse RS485	Pulse RS485 4-20mA
Valve body material	304/316 Stainless Steel Aluminum Alloy/ PTFE	304/316 Stainless Steel Aluminum Alloy/ PTFE	304/316 Stainless Steel Aluminum Alloy/ PTFE	304/316 Stainless Steel Aluminum Alloy/ PTFE
Connection method	Thread/ Flange Clamp/ Socket	Thread/ Flange Clamp/ Socket	Thread/ Flange Clamp/ Socket	Thread/ Flange Clamp/ Socket

Display normal temperature type/ Display high temperature type



Connection method

Ferrule connection



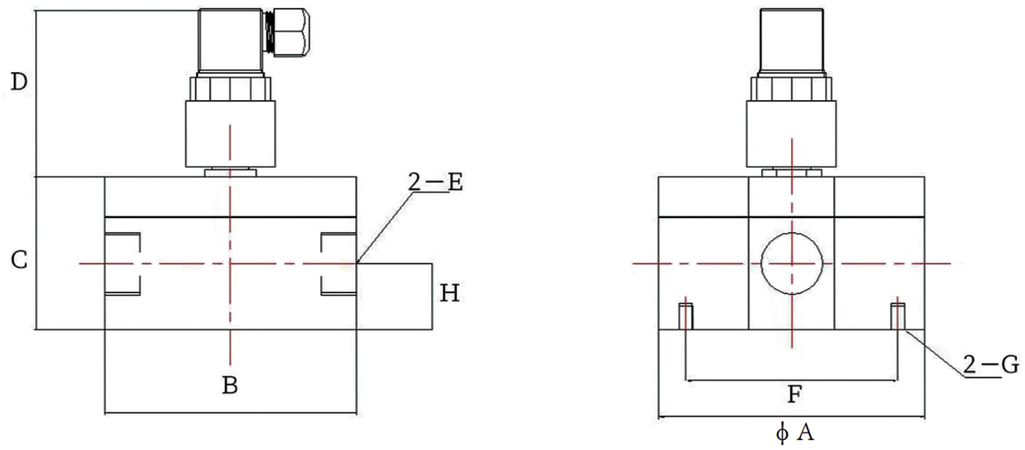
Flange connection



Threaded connection	Clamp connection
	

Choose the appropriate connection method, diameter, and material based on your site's piping and the measuring medium.

Product size Unit：mm



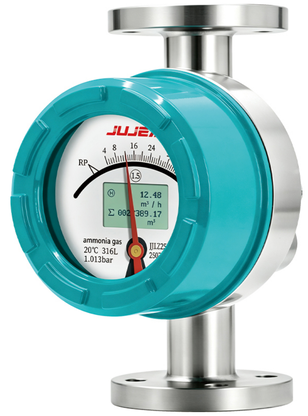
Size / Model	A	B	C	D	E	F	G	H
GF02	ϕ83	80	55	75	G1/4 (PTFE G3/8)	40	M6	18
GF04	ϕ83	80	55	75	G3/8	55	M6	16
GF06	ϕ83	78	65	75	G1/2	55	M6	19
GF10	ϕ83	78	65	75	G1/2	55	M6	19
GF15	ϕ113	107	65	75	G3/4	90	M8	24
GF20	ϕ113	107	65	75	G3/4	90	M8	24
GF25	ϕ148	140	82	75	G1	110	M10	40
GF32	ϕ218	160	100	75	G1-1/4	180	M10	45

Note: The above dimensions are standard product dimensions and can be customized according to the specific working conditions of the customer's site.

JJ-LZ METAL TUBE FLOAT FLOW METER

Metal tube float flowmeters (metal tube rotor flowmeters) are a commonly used variable area flow measurement instrument in industrial automation process control. They are characterized by their small size, wide detection range, and ease of use. They can be used to measure the flow rate of liquids, gases, and steam, and are particularly suitable for measuring low flow rates and small velocity flows.

For many years, metal tube float flowmeters have been widely used in industries such as petrochemicals, steel, power, metallurgy, light industry, food, pharmaceuticals, and water treatment due to their excellent performance, reliability, and good price-performance ratio.



technical parameters

Term	LZ Metal tube float flow meter parameters
Flowmeter diameter	DN15，DN25，DN50，DN80，DN100，DN150（Customization supported）
Flow range	Liquid：1.0-150000L/h；Gas：0.05-3000m³/h
Range ratio	10：1，20：1（Special）
Accuracy	Level 1.5, Level 1.0（Special）
Pressure level	DN15、DN25、DN50：4.0MPa（Max 20MPa）；DN80、DN100、DN150：1.6MPa (Max：DN80：10MPa；DN100：6.4MPa；DN150：4.0MPa)
Medium temperature	Standard：-30°C~+120°C，High Temperature：120°C~350°C
Power supply	24VDC（12～36VDC），220VAC
Output signal	4～20mADC（Two-line system），HART protocol can be attached.
Output load	500Ω（when powered by 24V）
Ambient temperature	Local type：-40°C～120°C；Remote type：-30°C～60°C
Storage conditions	Temperature：-40°C～85°C；Humidity：⩽ 85%
Connection method	Flange connection, flange standard: GB/T9119-2000, customization supported.
Cable interface	M20×1.5，1/2 NPT
Enclosure protection	IP65
Explosion-proof marking	Intrinsically safe：Ex ia IICT6，Explosion-proof：Ex d IICT6
Medium viscosity	DN15：η＜5mPa.s；DN25：η ＜250mPa.s；DN50～DN150：η＜300mPa.s
Liquid-wetting material	R1：304，06Cr19Ni10； R0：316，06Cr17Ni12Mo2 RL：316L，022Cr17Ni12Mo2； Ti: Titanium alloy; RP: Polytetrafluoroethylene lining

Functional features

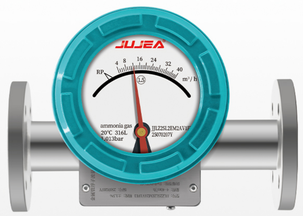
Suitable for flow measurement of small-diameter and low-velocity media.	Reliable operation, low maintenance, and long service life
Not demanding in terms of straight pipe section requirements.	Wide range ratio of 10:1
Dual-line LCD display for on-site instantaneous/ cumulative flow rate display.	Keyboard on the indicator for convenient operation and settings
All-metal construction, suitable for high-temperature, high-pressure, and highly corrosive media.	Non-contact magnetic coupling drive
Can be used in flammable and explosive hazardous environments.	Optional DC power supply or battery power supply
Features data recovery, data backup, and power-off protection functions.	Multi-parameter calibration function

Multiple specifications

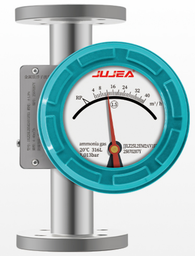
Vertical installation type



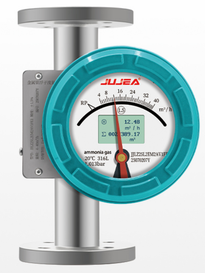
Horizontal installation type



Pointer display type



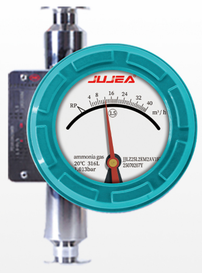
Pointer + LCD display type



Flange connection type



Clamp connection type





Liquid-receiving materials are optional.

* 304 stainless steel is the default, 316 stainless steel or PTFE-lined are optional.

Vertically installed flow meter

Caliber (mm)	Float	Water L/h (0.1013MPa abs, 20℃)		Air m³/h (0.1013MPa abs, 20℃)	Pressure loss (kPa) (Low pressure loss can be customized)	
	Float material	Stainless steel	PTFE、Ti	Stainless steel	Stainless steel	PTFE、Ti
DN15	F15.0	10	-	-	1.5	-
	F15.1	16	-	0.5	1.5	-
	F15.2	25	-	0.7	1.5	-
	F15.3	40	25	1.2	1.5	1.5
	F15.4	60	40	1.8	1.5	1.5
	F15.5	100	60	2.8	1.5	1.5
	F15.6	160	100	4.5	1.5	1.5
	F15.7	250	160	7.5	3.0	1.5
	F15.8	400	250	12	3.0	3.0
	F15.9	600	400	18	3.5	3.0
DN25	F25.0	1000	600	30	1.5	1.5
	F25.1	1200	800	35	1.5	1.5
	F25.2	1600	1000	45	3.0	1.5
	F25.3	2000	1200	60	3.0	1.5
	F25.4	2500	1600	75	3.5	3.0
	F25.5	3000	2000	90	3.5	3.0
	F25.6	4000	2500	120	8.0	3.5
	F25.7	5000	3000	150	8.0	3.5
	F25.8	6000	-	180	16.0	-
DN50	F50.0	6000	4000	180	3.0	3.0
	F50.1	8000	5000	240	3.0	3.0
	F50.2	10000	6000	300	4.0	3.0
	F50.3	12000	8000	360	4.0	3.0
	F50.4	16000	10000	480	8.0	4.0
	F50.5	20000	12000	600	8.0	4.0
DN80	F80.0	25000	16000	750	14.0	8.0
	F80.1	30000	20000	900	14.0	9.0
	F80.2	40000	25000	1200	20.0	12.0
	F80.3	50000	30000	1500	20.0	15.0
DN100	F100.0	60000	40000	1800	28.0	25.0
	F100.1	80000	50000	2400	28.0	27.0
	F100.2	100000	60000	3000	40.0	38.0
DN125	F125.1	100000	80000	3000	45.0	35.0
	F125.2	125000	100000	-	48.0	40.0
DN150	F150.1	125000	100000	-	48.0	40.0
	F150.2	150000	125000	-	50.0	42.5

Vertically installed flow meter

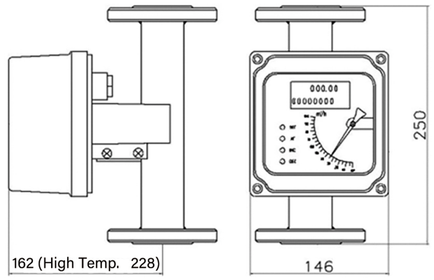
Caliber (mm)	Float	Water L/h (0.1013MPa abs, 20℃)		Air m³/h (0.1013MPa abs, 20℃)	Pressure loss (kPa) (Low pressure loss can be customized)	
	Float material	Stainless steel	PTFE、Ti	Stainless steel	Stainless steel	PTFE、Ti
DN15	F15.5	160	100	4.5	1.5	1.5
	F15.6	200	120	6.0	1.5	1.5
	F15.7	250	160	7.5	2.0	2.0
	F15.8	400	250	12	2.0	2.0
	F15.9	600	400	18	3.5	3.5
DN25	F25.0	1000	600	30	1.5	1.5
	F25.1	1600	1000	45	1.5	3.0
	F25.2	2000	1200	60	3.0	3.0
	F25.3	2500	1600	75	3.0	3.5
	F25.4	3000	2000	90	3.5	3.5
	F25.5	4000	2500	120	8.0	8.0
DN50	F50.0	6000	4000	180	3.0	3.0
	F50.1	8000	5000	240	3.0	3.0
	F50.2	10000	6000	300	4.0	4.0
	F50.3	12000	8000	360	4.0	4.0
	F50.4	16000	10000	480	8.0	8.0
DN80	F80.1	25000	16000	750	14.0	14.0
	F80.2	30000	20000	900	14.0	14.0
	F80.3	40000	25000	1200	20.0	22.0
DN100	F100.0	60000	40000	1800	30.0	30.0
	F100.1	80000	50000	2400	30.0	30.0
	F100.2	100000	60000	3000	45.0	45.0
DN125	F125.1	100000	80000	3000	45.0	45.5
	F125.2	125000	100000	-	46.0	48.0
DN150	F150.1	125000	100000	-	48.0	46.0
	F150.2	150000	125000	-	50.0	50.0

Vertically installed flow meter

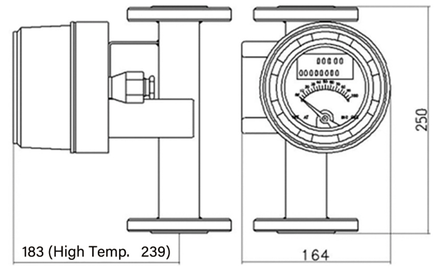
Instrument diameter	Pipeline standards	Pipe outer diameter	Clamp size	Instrument diameter	Pipeline standards	Pipe outer diameter	Clamp size
DN15	1/2″	Φ19	Φ50.5	DN50	2″	Φ51	Φ64.0
DN20	3/4″	Φ22	Φ50.5	DN65	2.1/2″	Φ63	Φ77.5
DN25	1″	Φ25.4	Φ50.5	DN80	3″	Φ76	Φ91.0
DN32	1.1/4″	Φ32	Φ50.5	DN100	4″	Φ101.6	Φ119.0
DN40	1.1/2″	Φ38	Φ50.5	/			

*(Clamp type) Generally conforms to US standards

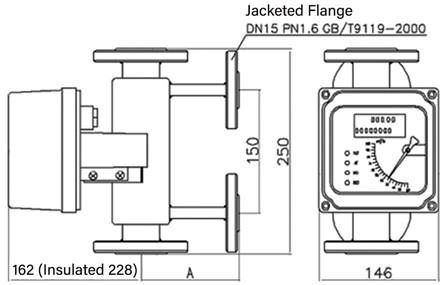
Vertical product dimensions Unit: mm



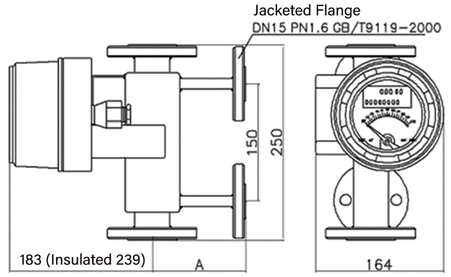
Standard M1 indicator



Standard M2 indicator

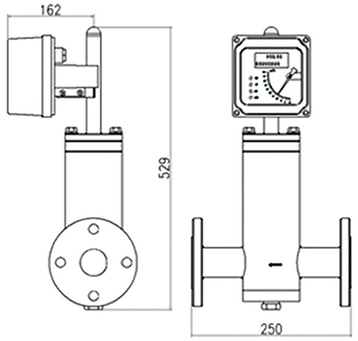


Cooling jacket type M1 indicator

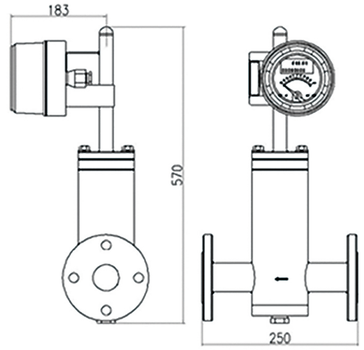


Cooling jacket type M2 indicator

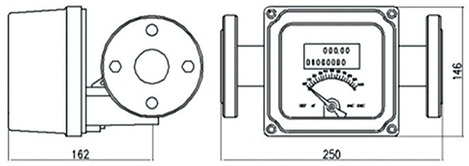
Horizontal product dimensions Unit: mm



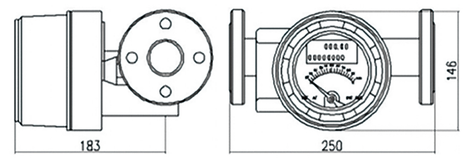
T-shaped structure M1 indicator



T-shaped structure M2 indicator



Spring structure M1 indicator



Spring structure M2 indicator

*For horizontally installed flow meters, a T-type structure should be selected when the diameter is less than DN50 (inclusive), and a spring structure should be selected when the diameter is greater than DN50.

MICRO FLOWMETER

The GICAR series of micro-flow meters is a specialized flow meter designed using the turbine principle to measure minute flow rates. It boasts extremely high accuracy, especially under high temperature and pressure conditions. Thanks to its ingenious structural design, no sediment forms during operation, ensuring a "clean" working process. Therefore, even in extremely demanding requirements, such as those encountered in semiconductor integrated circuit and chip manufacturing processes where the etching agents are highly corrosion-resistant and even a tiny particle could render the chip unusable, GICAR products can meet these demands.

This series of flow meters has a wide range of applications: it can be used to measure, regulate, and dispense liquids, including in industrial, chemical, petroleum, and commercial applications such as coffee machines. When used in the food hygiene industry, the products are certified by the U.S. National Food Safety Authority (NSF).



technical parameters

Term	GICAR Micro flow meter parameters
Material	Housing: Nickel-plated brass/Brass/Plastic
	Bearing: INOx18/8 (1.4305) Stainless Steel
	Impeller: PVDF (Polyvinylidene Fluoride)
	Magnet: SrFeO ceramic, ultrasonically welded
Sealing	MVQ (Silicone Rubber O-ring)
Temperature range	-10℃ ~ +100℃
Accuracy class	± 2%
Repeatability	± 0.2%
Pressure range	0.2MPa≤Pressure≤2MPa
Mounting method	Horizontal installation
Dimensions (L×B×H)	40×55×40mm
Connection	MPM connector
Power supply	4.5~24VDC
Output	Open collector
Max (additional) voltage output	25VDC
Max current output	25mA
Thread	G1/4

technical parameters

Capable of measuring minute flow rates	Excellent repeatability, with short-term repeatability reaching ±0.2%.
High accuracy, typically ±2.0%R	Ingenious structural design, easy to install and maintain, and versatile in application.

Flow range

Caliber (mm)	Measurement range		Instrument coefficient	
	(L/min)	(L/h)	(cm^3/imp)	(I /L)
0.7mm	0.025~0.70	1.50~42.00	0.30	3333
1.0mm	0.032~1.40	1.92~84.00	0.47	2128
1.15mm	0.035~1.60	2.10~96.00	0.50	2000
1.3mm	0.040~1.86	2.40~111.6	0.60	1667
1.5mm	0.045~2.08	2.70~124.8	0.67	1493
2.0mm	0.085~2.32	5.10~139.2	1.02	980
2.5mm	0.120~2.40	7.20~144.0	1.44	694
3.7mm	0.150~3.00	9.00~180.0	2.28	439

QUANTITATIVE CONTROL SYSTEM

The quantitative controller is a flow measurement and control system that uses a high-performance control-type HMI (Human Machine Interface) as its core, and is paired with various flow transmitters, sensors (such as turbine, vortex, and electromagnetic flow meters), and solenoid valves and pumps. It integrates flow rates and controls the quantity of feed.

This quantitative controller features a user-friendly interface and robust hardware and software protection measures. The UI is simple and easy to use, requiring only a quick glance. It boasts reliable safety, excellent anti-interference capabilities, and outstanding stability. It is primarily used in industries such as petroleum, chemical, pharmaceutical, and food processing where quantitative packaging and control are required: quantitative dispensing/addition, loading, batching, discharging, dispensing, and gasification.



Integrated quantitative controller



PLC quantitative controller

technical parameters

Simple and easy to operate, with a clear and intuitive menu;	Data logging: Quantitative data logging;
Applicable to a wide range of flow meters and fluid media;	Cumulative reports: Supports cumulative traffic and batch traffic statistics;
Can measure quantities in different units such as L, Kg, and m^3;	Communication functions: Standard Modbus RTU protocol for external data transmission;
Safety protection functions: flow interruption alarm; water pump overload protection; high and low liquid level alarms (optional);	
Data storage function: parameter settings, quantitative recorded data (can be manually cleared), historical fault records (can be manually cleared), permanently saved after power failure.	

technical parameters

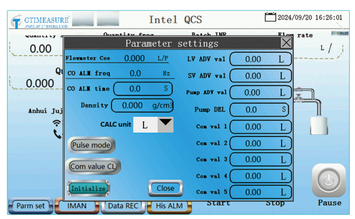
Term	DLRJ Quantitative control system parameters	
Product appearance	 Integrated quantitative controller	 PLC quantitative controller
Screen	7/10/15-inch industrial-grade touchscreens	
Controller	High-performance dedicated quantitative accumulation calculation chip	High-performance German Siemens PLC
Flow channel input	Pulse-type input signal; Frequency range: <5000Hz；Voltage rating: DC24V	Pulse-type input signal; Frequency range: 1-30kHz；Voltage rating: DC24V
Relay output	Supports 3-channel relay output, contact capacity 3A 250VAC / 5A 24VDC	
Power supply	220VAC/380VAC 50HZ AC power supply	220VAC/50HZ AC power supply
Communication interface	Provides an RS485 communication interface; supports Modbus RTU protocol (for connection to a host computer or other data reading devices).	
Product dimensions	350*450*200mm	400*500*200mm

Product model

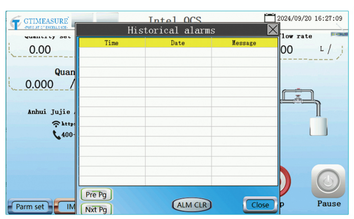
Integrated quantitative controller

It can perform single-channel quantitative operation with pulse signal input, achieving a quantitative accuracy of up to 0.5 grade; it has built-in safety protection functions (such as automatic alarm and shutdown in case of flow meter or solenoid valve failure; optional liquid level shutdown function); 7-inch touch screen with dynamic display of system diagram, alarm display, and countdown display; direct input of quantitative value and quantitative number of times, simple operation; manual and automatic control of pump valve start and stop.

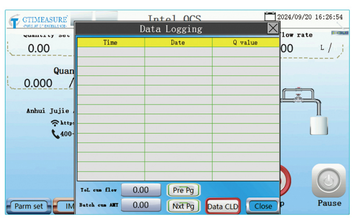




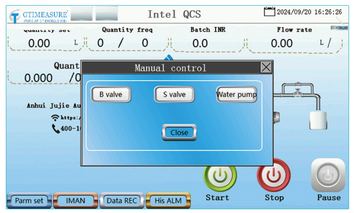
Parameter setting



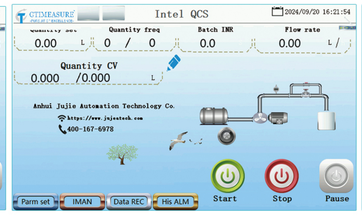
Alarm log



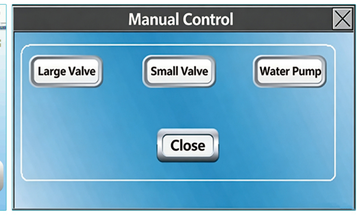
Data log



One-key Operation



Main control screen introduction

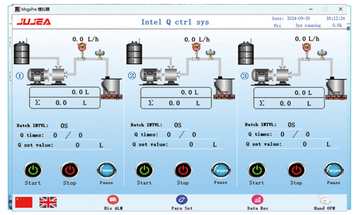


Manual screen introduction

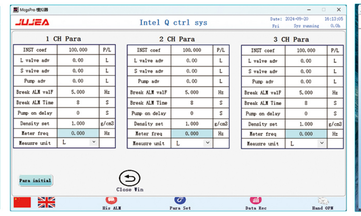
PLC quantitative controller

Suitable for two-channel, three-channel, four-channel...N-channel quantitative systems, it is powerful, highly flexible, and supports customization; pulse signal input, quantitative accuracy up to 0.5 level; 7-inch touch screen operation, direct input of quantitative value and number of times, simple operation, manual/automatic control of pump valve start and stop.

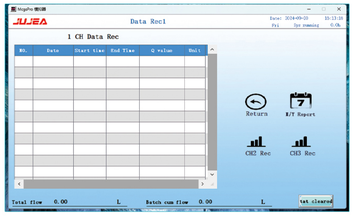




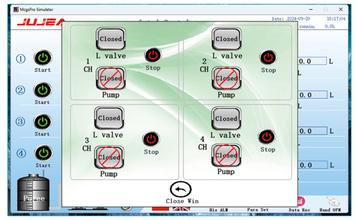
Main control screen introduction



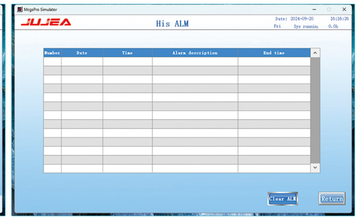
Parameter Setting



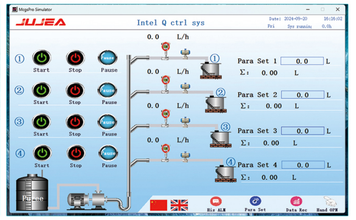
Data Recl



Pump and Valve Control Interface



Historical alarm records

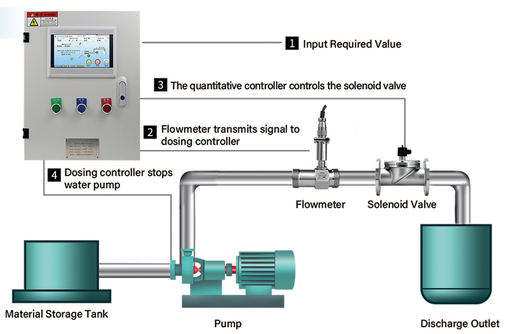


Dosing Control System Interface

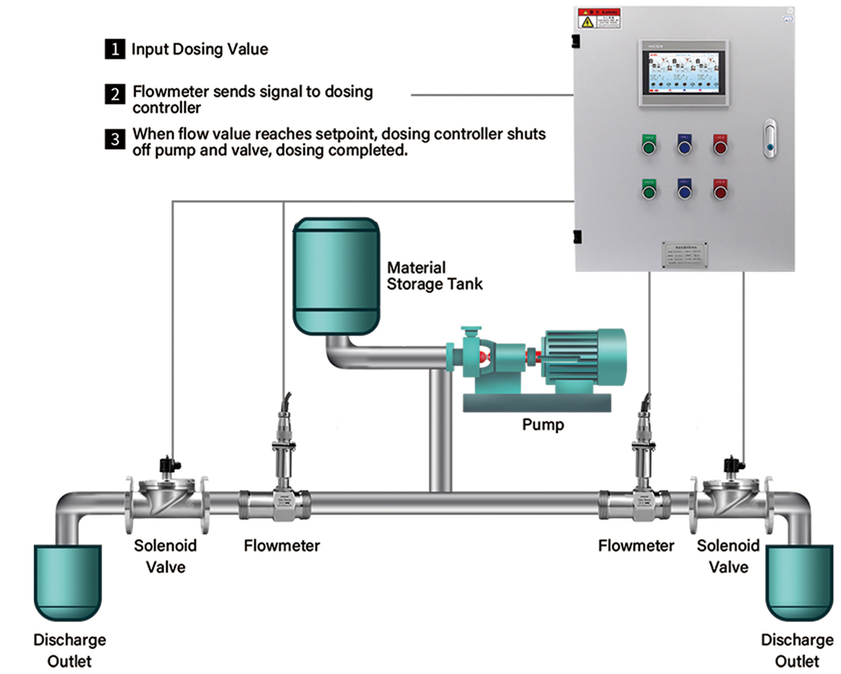
Schematic diagram of quantitative control system

One-way quantitative control pump + valve

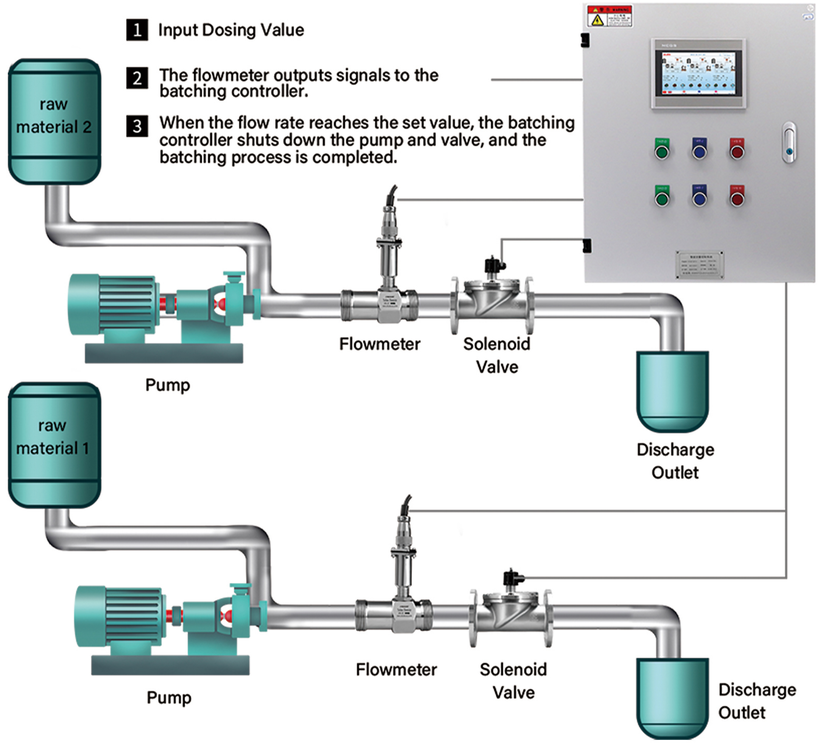
Press the instrument start button, and the water pump and solenoid valve will open simultaneously. The liquid flows through the flow meter, which transmits the flow signal to the quantitative controller. When the set value is reached, the quantitative controller cuts off the power to the AC contactor and the solenoid valve, and the water pump and solenoid valve close, thus completing one quantitative cycle.



Two-way quantitative control valve



Two-way quantitative control valve



JJ-21XF/30XF FLOW TOTALIZER

The sophisticated flow totalizer is an instrument based on an ARM microprocessor, working in conjunction with various flow transmitters and sensors to accurately measure and calculate flow rates for different fluid media using multiple mathematical models.
It processes, displays, controls, transmits remotely, communicates, and prints various signals such as temperature, pressure, and flow rate, forming a digital acquisition and control monitoring system. It is widely used in trade settlement and factory metering management networks in industries such as petrochemicals, chemicals, metallurgy, power, light industry, pharmaceuticals, and urban gas.



JJ-21XF Flow Totalizer



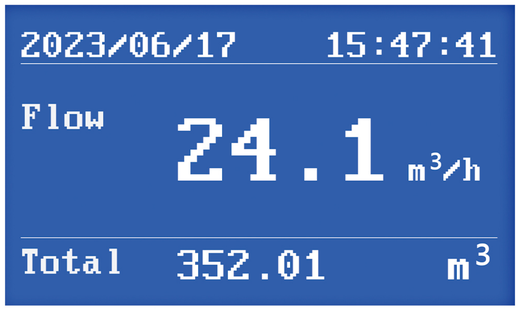
JJ-30XF Flow Totalizer

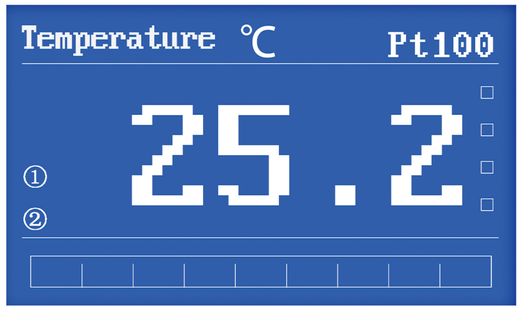
technical parameters

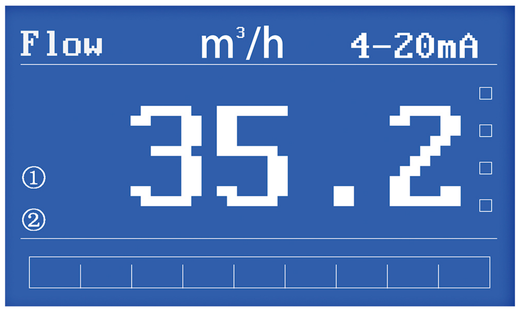
Term		JJ - 21XF Flow totalizer parameters	JJ - 30XF Flow totalizer parameters
Screen		128*64 dot matrix monochrome LCD screen	
Precision		Real-time display: ±0.2% F.S.	
Processor		High-performance ARM Cortex-M3 32-bit RISC core	
Input function	Current channel	Analog signals: 4-20mA, 0-10mA, etc.	Analog signals: 4-20mA, 0-10mA, etc.
	Flow channel	Frequency signals: PI (frequency range: 0-5000Hz, maximum frequency range can be customized)	Frequency signals: Fr (range: 0.0-5000.0HZ, low level ⩽1V, high level ⩾5V)
	Temperature channel	4-20mA, 0-10mA, Pt100, and other signals	
	Pressure channel	4-20mA, 0-10mA, and other signals	
Output function	Power distribution output	12VDC and 24VDC power distribution, 12VDC standard power distribution<60mA, 24VDC standard power distribution circuits <30mA	One (F12) 12VDC and two (Q24/P24) 24VDC sensor power supplies, with a maximum output current of 30mA per channel.
	Transmitter output	One flow channel with a 4-20mA standard current transmitter output, load capacity ⩽500Ω.	One standard current transmitter output (source optional), load capacity 500Ω (maximum).
	Relay output	Up to 2 relay alarm outputs, contact capacity A@250VAC/1A@30VDC (maximum contact capacity can be customized). Upper limit, upper limit, lower limit, and lower lower limit alarms can be configured.	Maximum 3-channel relay output, contact capacity 3A@250VAC/3A@30VDC, configurable upper limit, upper limit, lower limit, and lower lower limit alarms.
Communication interface		RS232C or RS485, supports Modbus RTU protocol, baud rate----(1200, 2400, 4800, 9600)	
Report backup and transfer		/	Supports USB 2.0 protocol and allows cumulative report transfer from 1GB to 32GB USB flash drives.
Power supply		It is powered by 220VAC/50HZ AC power by default, and supports 24VDC or 12VDC DC power supply (if DC power supply is required, please specify when ordering).	
Work environment		Ambient temperature: 0~50℃ (avoid direct sunlight)	
		Ambient humidity: 0~85% RH (non-condensing)	
		Altitude: <2000 meters	
Instrument net weight		⩽1.5Kg	⩽1.0Kg
Language		Chinese	Bilingual in Chinese and English, switch freely

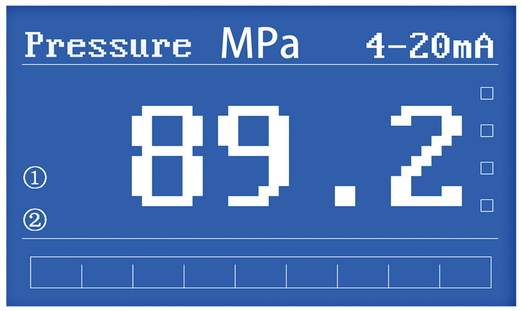
Display screen

JJ - 21XF Flow totalizer display screen

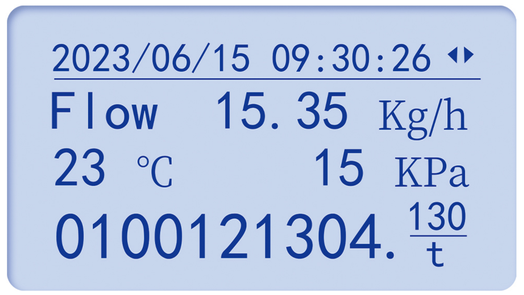


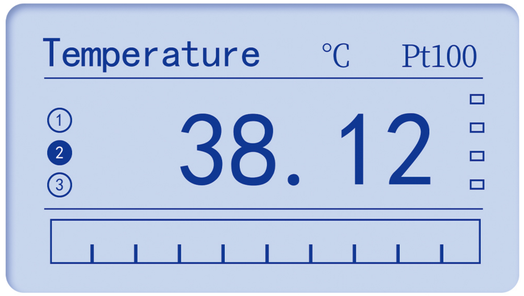


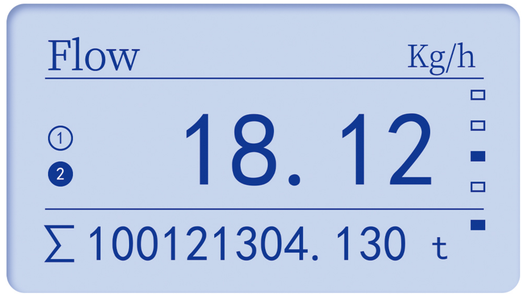


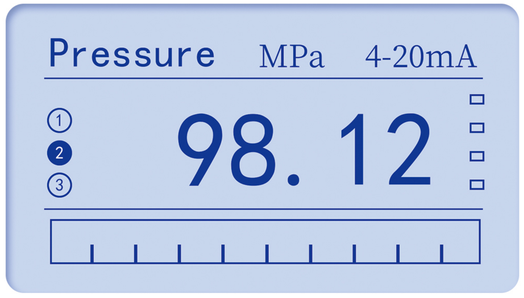


JJ - 30XF Flow totalizer display screen



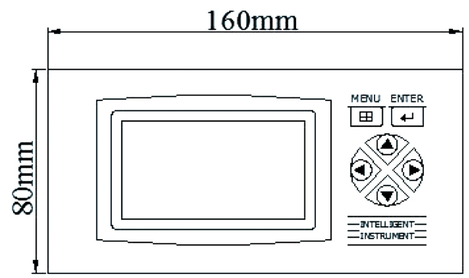


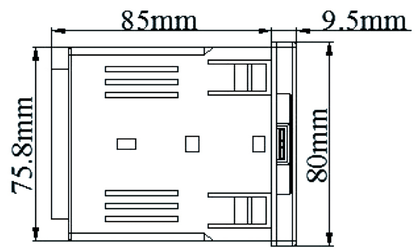




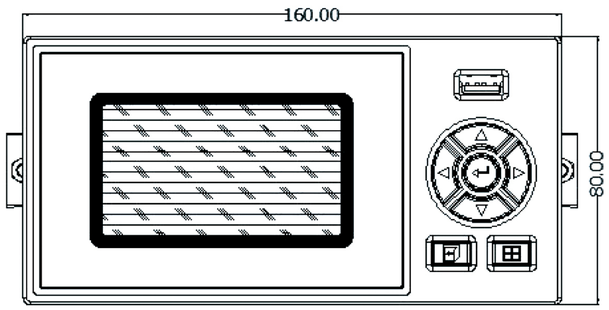
Product size Unit: mm

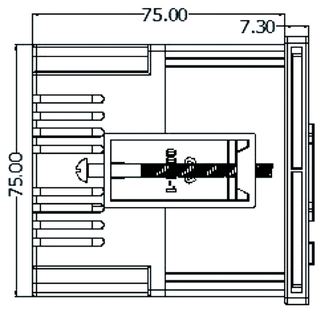
JJ - 21XF Flow totalizer dimensions

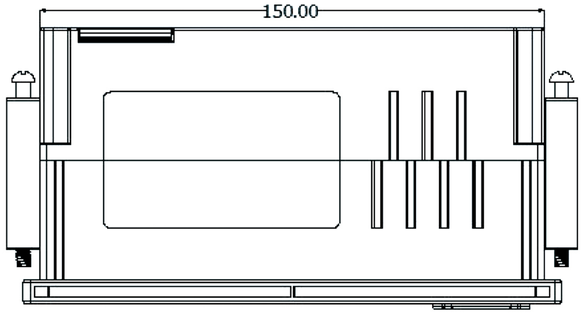




JJ - 30XF Flow totalizer dimensions









JJ-LUGB VORTEX FLOW METER

A vortex flow meter is a velocity-type flow instrument suitable for measuring and controlling the flow of liquids, steam, and most gases. The vortex flow meter features a rational design, powerful functionality, and excellent multi-segment linear correction capabilities. It utilizes a fine, low-power 45*30 full-dot matrix LCD display for clear, intuitive operation and ease of use. RS485 or HART communication can meet various user needs, and multiple compensation algorithms can satisfy almost all flow compensation calculations.



technical parameters

Term	LUGB Vortex flow meter arameters
Nominal diameter (DN)	15、20、25、32、40、50、65、80、100、125、150、200、250、300……
Pressure rating	1.6 MPa (greater than 1.6 MPa, subject to contract order)
Medium and temperature	Medium: Liquid, general gas, vapor; Temperature: -20~250°C; 250~350°C
Body material	SS304; SS316L Order by agreement
Permissible vibration acceleration	0.2g
Accuracy	Level 1.0; Level 1.5; Level 2.5
Range ratio	1:6；1:10；1:20
Power supply voltage	3.6V lithium battery；DC24V
Output signal	Pulse, 4~20mA, RS485, HART protocol
Explosion-proof marking	ExdII CT6 Gb
Protection class	IP65；IP68
Environmental conditions	Temperature: -20~55°C; Relative Humidity: 5~95%; Atmospheric Pressure: 86~106KPa
Display	No display; LCD display
Electrical interfaces	M20X1.5；NPT1/2

Connection method

Integrated flange valve body	Clamped flange valve body	Threaded valve body	Clamp valve body
			

Flow range

Nominal diameter (mm)	Liquid flow rate range (m³/h)	Gas flow rate range (m³/h)
DN15	1~6	3~12
DN20	1~10	5~30
DN25	1.6~16	8~70
DN32	2.2~20	15~150
DN40	2.5~25	20~200
DN50	3.5~35	35~350
DN65	6.5~65	50~500
DN80	10~100	70~700
DN100	15~150	110~1100
DN125	27~275	150~1500
DN150	40~400	250~2200
DN200	80~800	600~4000
DN250	120~1200	960~5500
DN300	180~1800	1500~11500

Vortex Flowmeter with T&P compensation

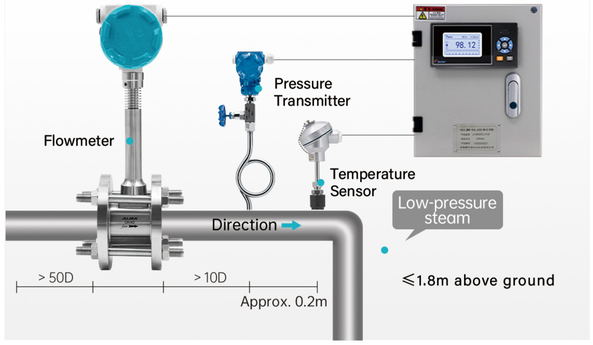
Temperature and pressure compensated type	Model	W1	W2	W3	W4	W40
	Signal output	/	4-20mA	Pulse RS485	4-20mA Pulse RS485	
	Display method	LCD display				
	Power supply method	Battery powered	24VDC			Battery powered 24VDC
	Connection method	Female/male threads flange、clamp、 flange clamping				

Vortex Flowmeter without T&P compensation

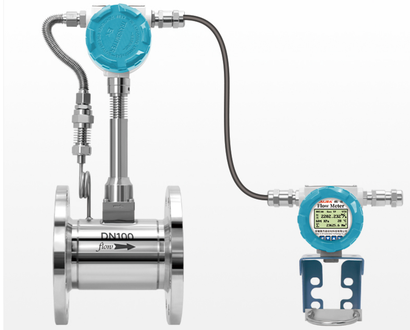
Without temperature and pressure compensation type	Model	DN	DB	DC	DE	DE0
	Signal output	Pulse	4-20mA	Pulse RS485	4-20mA Pulse RS485	
	Display method	No display	LCD display			
	Power supply method	24VDC	Battery powered	24VDC		Battery powered 24VDC
	Connection method	Female/male threads flange、clamp、 flange clamping				

Model introduction of remote vortex flowmeter

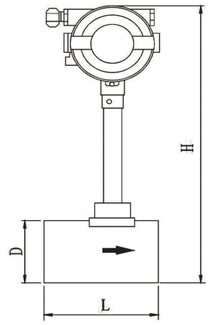
Split-type temperature and pressure compensation type



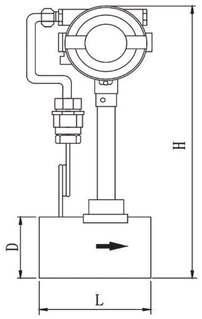
Split-type temperature and pressure compensation type



Product size

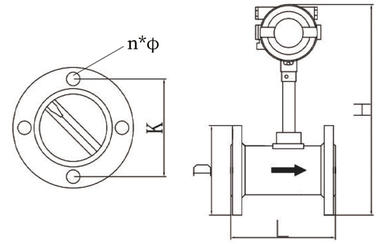


Standard clamping body

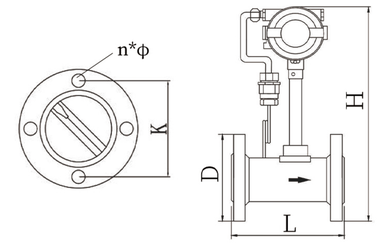


Temperature and pressure compensated clamping body

Nominal diameter	Standard clamping body			Temperature and pressure compensated clamping body		
	L	D	H	L	D	H
DN15	80	63	364	100	63	364
DN20	80	63	364	100	63	364
DN25	80	63	364	100	63	364
DN32	80	63	364	100	63	364
DN40	80	78	384	100	78	384
DN50	80	78	384	100	78	384
DN65	80	100	404	100	100	404
DN80	100	113	427	100	113	427
DN100	100	132	436	100	132	436
DN125	100	158	479	100	158	479
DN150	110	180	506	110	180	506
DN200	140	240	589	140	240	589
DN250	160	298	615	160	298	615
DN300	180	350	666	180	350	666

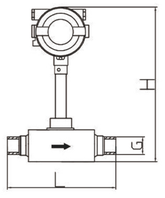


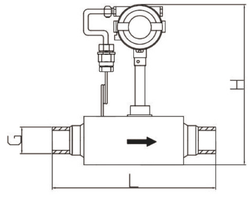
Standard flange connection body



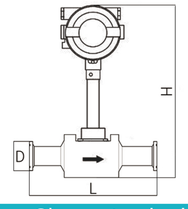
Temperature and pressure compensated flange connection body

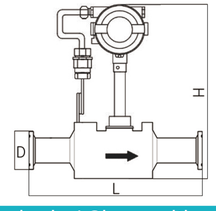
Nominal diameter	Standard flange connection body					Temperature and pressure compensated flange connection body				
	L	D	H	K	n*ϕ	L	D	H	K	n*ϕ
DN15	200	95	381	65	4*14	200	95	381	65	4*14
DN20	200	105	386	75	4*14	200	105	386	75	4*14
DN25	200	115	391	85	4*14	200	115	391	85	4*14
DN32	200	140	404	100	4*18	200	140	404	100	4*18
DN40	200	150	419	110	4*18	200	150	419	110	4*18
DN50	200	165	426	125	4*18	200	165	426	125	4*18
DN65	200	185	446	145	4*18	200	185	446	145	4*18
DN80	200	200	465	160	8*18	200	200	465	160	8*18
DN100	200	220	471	180	8*18	200	220	471	180	8*18
DN125	250	250	499	210	8*18	250	250	499	210	8*18
DN150	300	285	530	240	8*22	300	285	530	240	8*22
DN200	300	340	583	295	12*22	300	340	583	295	12*22
DN250	300	405	643	355	12*26	300	405	643	355	12*26
DN300	300	460	695	410	12*26	300	460	695	410	12*26





Threaded standard type body / Threaded with T&P compensation type body





Clamp standard type body / Clamp with T&P compensation type body

Nominal diameter	Threaded standard type body / Threaded with T&P compensation type body			Clamp standard type body / Clamp with T&P compensation type body		
	L	G	H	L	G	H
DN15	150	G1/2	364	200	50.5	364
DN20	150	G3/4	364	200	50.5	364
DN25	150	G1	364	200	50.5	364
DN32	150	G5/4	364	200	50.5	364
DN40	150	G3/2	384	200	64	384
DN50	150	G2	384	200	77.5	384

JJ-LUX PRECESSION VORTEX FLOW METER

The intelligent precession vortex flow meter integrates flow, temperature, and pressure detection functions, and can automatically compensate for temperature, pressure, and compressibility factor. It is an ideal instrument for gas metering in industries such as petroleum, chemical, power, and metallurgy.

◎ It has no moving mechanical parts, is not easily corroded, and requires no special maintenance for long-term operation;

◎ It uses a 16-bit computer chip, which has high integration, small size, and powerful functions.

◎ Dual detection technology effectively improves the strength of the detection signal and suppresses interference caused by vibration;

◎ The intelligent seismic resistance technology effectively suppresses interference signals caused by vibration and pressure fluctuations.

◎ It adopts EEPROM technology, which makes parameter settings convenient and can save historical data for up to one year;

◎ It outputs frequency pulses and 4-20mA analog signals, and has an RS485 interface, which can be directly networked with a microcomputer, with a transmission distance of up to 1.2km.



technical parameters

Term	LUX Precession vortex flow meter parameters
Measuring medium	Gases such as natural gas, coal gas, and compressed air
Measuring accuracy	Level 1.0, Level 1.5
Nominal pressure	1.6MPa；2.5MPa；4.0MPa；6.3MPa
Valve body material	Aluminum alloy, 304 stainless steel, 316L stainless steel
Output signal	Pulse output、4-20mA、RS485
Medium temperature	-20℃～+120℃；-20℃～+180℃；-20℃～+280℃
Environmental conditions	Temperature: -30 to 65℃; Humidity: 5% to 95%; Atmospheric pressure: 86 to 106 kPa
Nominal diameter	DN15mm ~ DN200mm
Power supply	3.6V lithium battery；24VDC
Explosion-proof marking	Exd II CT6 Gb
Protection class	IP65
Alarm function	Upper and lower limit alarm signals, valve closure alarm signals

Meter type

Aluminum alloy precession vortex flow meter



Stainless steel precession vortex flow meter



High-pressure precession vortex flow meter



Threaded precession vortex flow meter



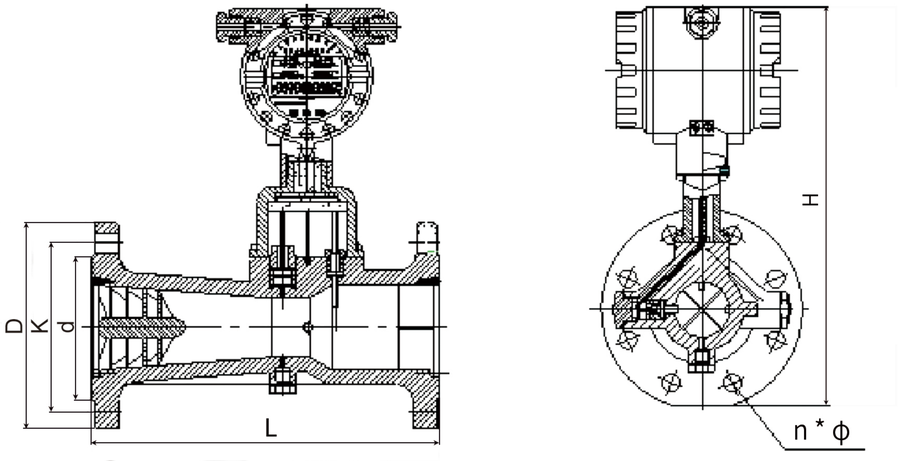
Flow range

Nominal diameter (mm)	Gas flow rate range (m^3/h)	Liquid flow rate range (m^3/h)	Work pressure (MPa)	Accuracy level	Repeatability
DN15	1~10	0.4~2			
DN20	2~20	0.8~4			
DN25	3~30	1.2~6			
DN32	4~50	2~10		Level 1.0	⩽2.5MPa Aluminum alloy
DN40	7~100	4~20	1.6	Level 1.5	⩾ 4.0MPa Stainless steel
DN50	10~150	6~30	2.5	* Accuracy: The system precision after temperature and pressure correction.	Less than 1/3 of the absolute value of the basic error limit
DN65	15~200	8~40	4.0		
DN80	30~400	16~80	6.3		
DN100	50~700	28~140			
DN125	60~1000	40~200			
DN150	150~2000	60~300			
DN200	240~3600	80~400			

Notes:

1、Accuracy: System accuracy after temperature and pressure correction.

Product size



Nominal diameter	Pressure level(Mpa)	L(mm)	H(mm)	D(mm)	K(mm)	n * ϕ
DN15	1.6、2.5、4.0、6.3	162	305	105	75	4*14
DN20	1.6、2.5、4.0、6.3	162	305	105	75	4*14
DN25	1.6、2.5、4.0、6.3	183	315	115	85	4*14
DN32	1.6、2.5、4.0、6.3	200	330	140	100	4*18
DN40	1.6、2.5、4.0、6.3	234	340	150	110	4*18
DN50	1.6、2.5、4.0	234	355	165	125	4*18
	6.3	234	365	180	135	4*18
DN65	1.6、2.5、4.0	304	370	185	145	4*18
	6.3	304	390	205	160	8*22
DN80	1.6、2.5、4.0	330	390	200	160	8*18
	6.3	330	400	215	170	8*22
DN100	1.6	410	410	220	180	8*18
	2.5	410	420	235	190	8*22
	4.0	410	420	235	190	8*22
DN125	1.6	517	435	250	210	8*18
	2.5	517	435	270	220	8*26
	4.0	517	455	270	220	8*26
DN150	1.6	580	470	285	240	8*22
	2.5	580	490	300	250	8*26
	4.0	580	490	300	250	8*26
DN200	1.6	700	525	640	295	12*22
	2.5	700	540	360	310	12*26
	4.0	700	550	375	320	12*30

Note:
All dimensions are manually measured with an error of approx. ±2 mm. The physical product shall prevail.

JJ- LWQ GAS TURBINE FLOW METER

Gas turbine flow meters are velocity-type flow meters used to measure gas flow rate. They feature simple and lightweight structure, high measurement accuracy, good repeatability, wide measurement range, and convenient installation and maintenance. They are used for measuring gases such as natural gas, coal gas, propane, butane, air, and nitrogen. They are suitable for trade metering and industrial process monitoring.

When a gas turbine flow meter measures gas online, the density of the medium changes with temperature and pressure. For accurate measurement, it is necessary to simultaneously track and detect the temperature and pressure of the medium, and convert the volumetric flow rate under different operating conditions into the volumetric flow rate under standard or agreed-upon conditions. The flow meter integrates temperature, pressure, and flow sensors, and tracks and detects the medium's temperature and pressure online, performing automatic compensation and compressibility factor correction calculations. Therefore, it has excellent low-pressure and high-pressure metering performance.



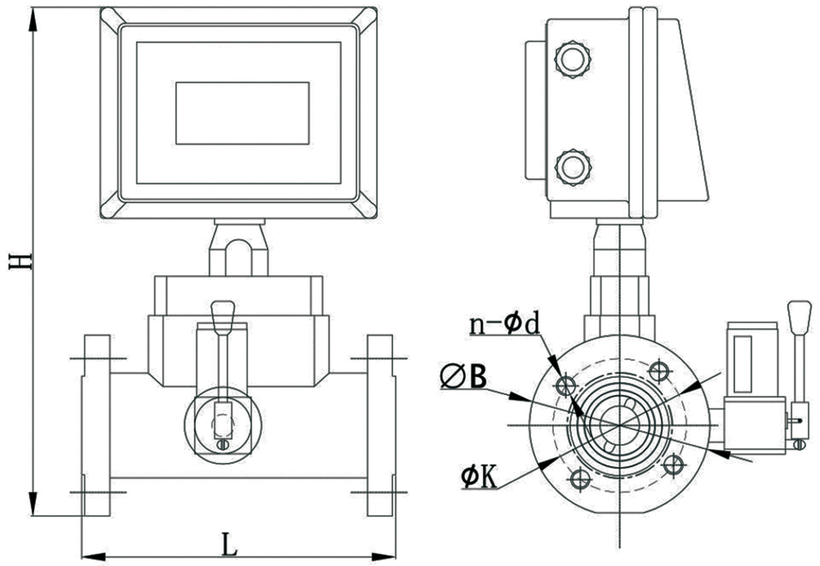
technical parameters

Term	LWQ Gas turbine flow meter parameters
Accuracy class	Grade 1.0, Grade 1.5
Instrument material	304 Stainless Steel or Aluminum Alloy
Medium temperature	-20°C~+80°C
Operating conditions	Ambient Temperature: -30～+60°C;
	Relative Humidity: 5～95%;
	Atmospheric Pressure: 86kPa～106Kpa
Power supply	3.6V lithium battery, 24VDC;
Connection method	Flange connection / Threaded connection
Signal output	Pulse signal, 4-20mA current signal, RS485 communication
Explosion-proof rating	Ex db IIC T6 Gb
Protection rating	IP65
Pressure rating	1.6MPa (standard), 2.5MPa, 4.0MPa, 6.3MPa

Flow range

Nominal diameter (mm)	Flow range (m^3/h)	Nominal diameter (mm)	Flow range (m^3/h)
DN25	2~20(M type)	DN100	20~400(M type)
	5~70(Y type)		32~650(Y type)
DN32	4~40	DN125	50~1000
DN40	5~60	DN150	50~1000(M type)
DN50	6~100(M type)		80~1600(Y type)
	10~160(Y type)	DN200	80~1600(M type)
DN65	15~200		125~2500(Y type)
DN80	13~250(M type)	DN250	125~2500(M type)
	20~400(Y type)		200~4000(Y type)

Product size



Nominal diameter	L(mm)	B(mm)	H(mm)	K(mm)	n*d	Body length (mm) for different materials
DN25	200	115	330	85	4*14	304/Aluminum alloy：200
DN32	210	140	350	100	4*18	304/Aluminum alloy：200
DN40	220	150	360	110	4*18	304/Aluminum alloy：200
DN50	230	165	380	125	4*18	304/Aluminum alloy：200
DN65	240	185	390	145	4*18	304/Aluminum alloy：200
DN80	250	200	400	160	8*18	304/Aluminum alloy：240
DN100	270	220	420	180	8*18	304/Aluminum alloy：300
DN125	300	250	450	210	8*18	304：300
DN150	330	285	490	240	8*22	304：450/Aluminum alloy：300
DN200	400	340	550	295	12*22	304：360/Aluminum alloy：600

JJ-TMF THERMAL GAS MASS FLOW METER



A thermal gas mass flow meter is an instrument that measures flow rate using the principle of heat conduction. This instrument employs the constant temperature difference method to accurately measure the mass flow rate of gas. It has advantages such as small size, high degree of digitization, convenient installation, and accurate measurement.

The sensor section consists of two reference-grade platinum resistance temperature sensors. Employing a bridge loop, one sensor measures the flow temperature, while the other maintains a constant temperature difference above the fluid temperature, enabling flow measurement under high temperature and high pressure conditions.

technical parameters

Term	TMF thermal gas mass flow meter parameters		
Accuracy	Flange type: 1.5%; Insert type: 2.5%	Transmitter material	Die-cast aluminum
Repeatability	±0.3%	Power consumption	≤25W
Pipe diameter range	Various gases (except acetylene)	Output	Output 4-20mA, RS485, HART
Measurement medium	DN15~2000mm	Field display	16 characters x 4 lines
Flow rate range	0-550000Nm3/h (DN2000 Air)	Supply type	Separate or integrated structure
Pressure range	Medium pressure≤ 2MPa	Structure type	Plug-in and conduit type
Medium temperature	0~150℃ ; 0~250℃ ; 0~350℃	Protection class	IP65
Applicable medium	All dry and clean gases (except acetylene)	Cable outlet	M20x1.5
Sensor diameter	Pipe section type：φ18； Insertion type：Φ20		
Sensor material	1Cr18Ni9Ti,304 stainless steel,316L		
Probe material	1Cr18Ni9Ti,Hastelloy, titanium, 316L, 304 stainless steel		
Alarm	2-channel relay, 3A/250V AC, 3A/30V DC		
Power supply voltage	DC24V/1.5A, AC110V or AC220V		

Product Model

Pipeline thermal gas mass flow meter	Insertion thermal gas mass flow meter	Split-type thermal gas mass flow meter
		

Split inline-section gas mass flow meter



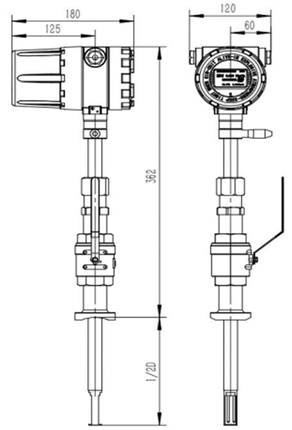
Split insertion gas mass flow meter

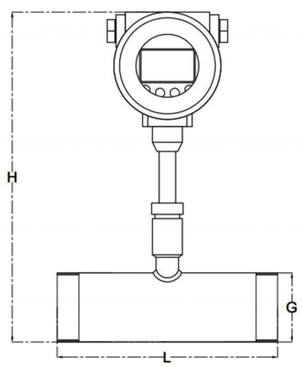


Flow range

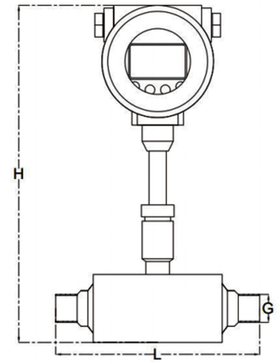
Pipe inner diameter (mm)	Minimum flow rate (Nm/s)	Maximum flow rate (Nm/s)	Minimum flow (Nm^3/h)	Maximum flow (Nm^3/h)	Normal flow range (Nm^3/h)
DN15	0.1	100	0.063	63	1-40
DN20	0.1	100	0.113	113	2-80
DN25	0.1	100	0.176	176	2.5-125
DN32	0.1	100	0.289	289	5-250
DN40	0.1	100	0.452	452	6-320
DN50	0.1	100	0.707	707	10-500
DN65	0.1	100	1.195	1195	15-850
DN80	0.1	100	1.81	1810	20-1300
DN100	0.1	100	2.827	2827	40-2000
DN125	0.1	100	4.418	4418	60-3000
DN150	0.1	100	6.362	6362	95-3000
DN200	0.1	100	11.30	11310	160-3000
DN250	0.1	100	17.671	17671	250-11000
DN300	0.1	100	25.447	25447	380-16000
DN350	0.1	100	34.636	34636	500-22000
DN400	0.1	100	45.239	45239	650-30000
DN450	0.1	100	57.255	57255	850-41000
DN500	0.1	100	70.685	70685	1000-50000
DN600	0.1	100	101.787	101787	1500-70000
DN700	0.1	100	138.544	138544	2000-100000
DN800	0.1	100	180.955	180955	2700-150000

Product Dimensions





DN40-DN50

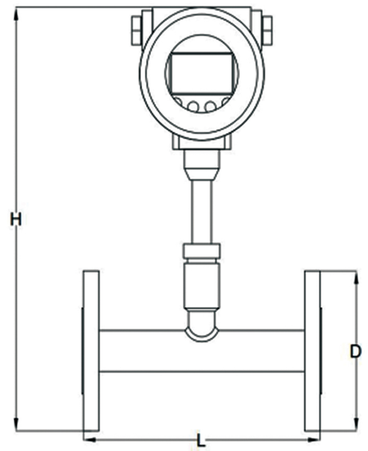


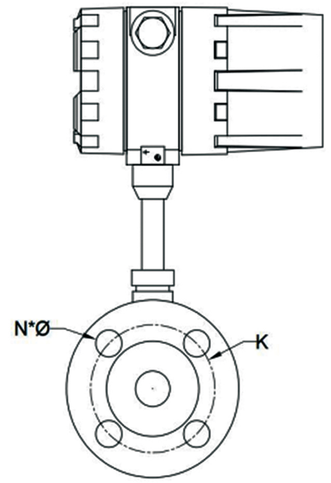
DN15-DN32

Insert size

Pipe-section threaded connection type
(sensor dimensions are shown in the table below)

Nominal inner diameter (mm)	L(mm)	H(mm)	G
DN15	200	293	1/2
DN20	200	293	3/4
DN25	200	293	1
DN32	200	293	5/4
DN40	200	308	3/2
DN50	200	308	2





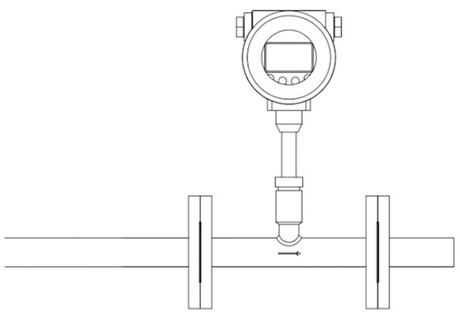
Pipe section flange connection type；Sensor dimensions (see table below)

Nominal inner diameter (mm)	L(mm)	H(mm)	D(mm)	K(mm)	N*ϕ
DN15	200	315	95	65	4*14
DN20	200	320	105	75	4*14
DN25	200	325	115	85	4*14
DN32	200	337	140	100	4*18
DN40	200	342	150	110	4*18
DN50	200	350	165	125	4*18
DN65	200	360	185	145	4*18
DN80	200	368	200	160	8*18
DN100	200	378	220	180	8*18
DN125	250	550	250	210	8*18
DN150	300	580	285	240	8*22
DN200	300	620	340	295	12*22
DN250	300	680	405	350	12*22
DN300	300	740	460	400	12*22

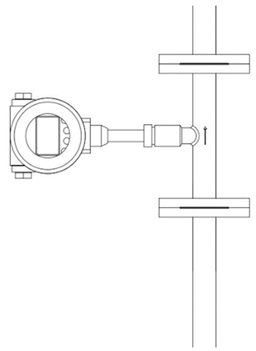
Pipe-section clamp connection type
(sensor dimensions are shown in the table below)

Nominal inner diameter (mm)	L(mm)	H(mm)	D(mm)
DN15	200	293	50.5
DN20	200	293	50.5
DN25	200	293	50.5
DN32	200	293	50.5
DN40	200	200	64
DN50	200	200	78

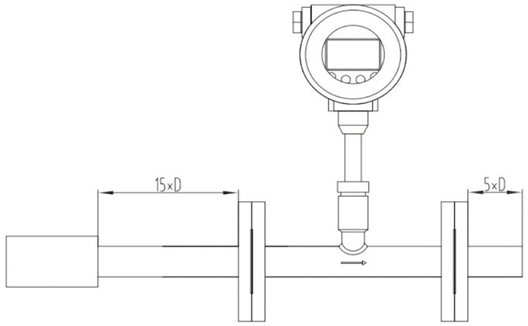
Installation Instructions



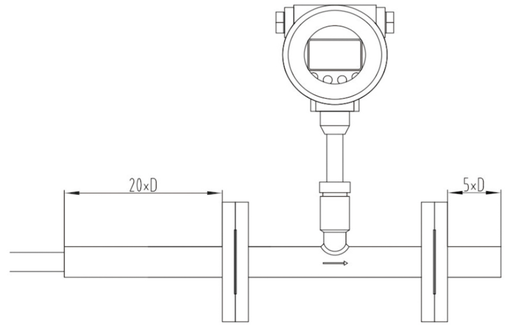
A 90° bend



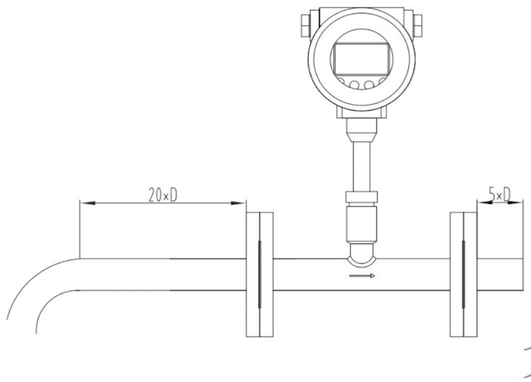
Two 90° bends



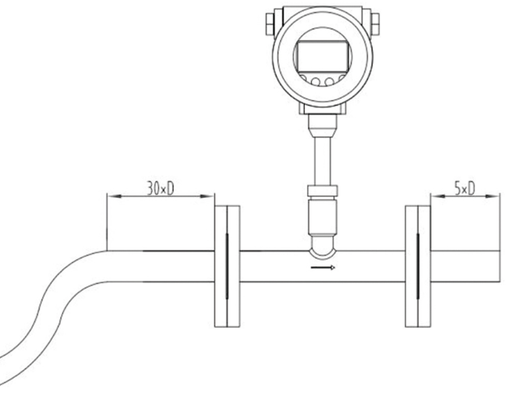
Reduced diameter pipe



Expanded pipe



A 90° bend



Two 90° bends

JJ-MF30 THERMAL GAS MASS FLOW METER

Miniature gas mass flow meters are specifically designed for the measurement and process control of various small-flow-rate gases. This series of sensors utilizes advanced microelectromechanical systems (MEMS) flow sensing chips and is suitable for various clean gases. Unique packaging technology allows for use in various pipe diameters, offering low cost, easy installation, and no need for temperature or pressure compensation. They can replace traditional volumetric or differential pressure flow meters.

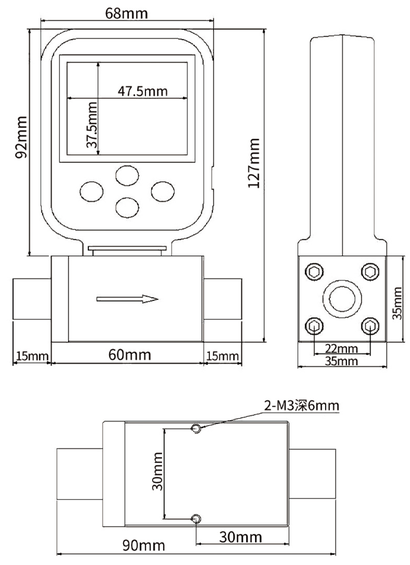
Applications: Aerospace, semiconductor manufacturing, medical and biological, electronics and automotive, steel metallurgy, marine electronics, industrial gas production, etc.



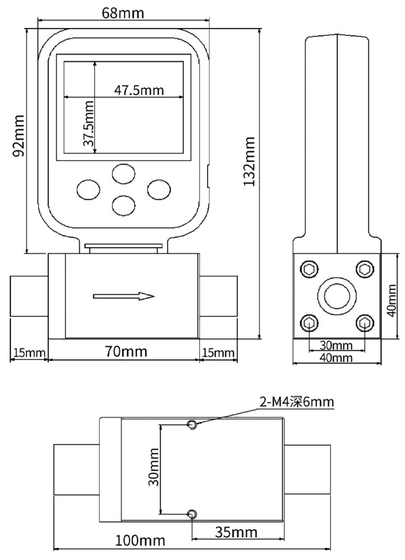
technical parameters

Term	MF30 Miniature thermal gas mass flow meter parameters		
Operating power supply	DC24V/2.5W	Accuracy (%)	±(2.0+0.2FS)
Medium temperature	-10~55℃	Humidity	<95%RH(No frost, no ice)
Operating pressure	≤1.0MPa（Customizable pressure）	Display	Instantaneous traffic, cumulative traffic
Output method	4-20mA/RS485 optional	Response time	50-1000 ms
Mechanical connection	G3/4 male thread; G1/2 male thread; G3/4 male thread	Communication protocol	Modbus Rtu（RS485 output）
Minimum measurable flow rate	2.8NL/min	Maximum measurable flow rate	1000NL/min

Product size



DN10 Outline dimensions



DN15/DN20 Outline dimensions

JJ-MF50 THERMAL GAS MASS FLOW METER

Miniature gas mass flow meters are specifically designed for the measurement and process control of various small-flow-rate gases. This series of sensors utilizes advanced microelectromechanical systems (MEMS) flow sensing chips and is suitable for various clean gases. Unique packaging technology allows for use in various pipe diameters, offering low cost, easy installation, and no need for temperature or pressure compensation. They can replace traditional volumetric or differential pressure flow meters.

Applications: Aerospace, semiconductor manufacturing, medical and biological, electronics and automotive, steel metallurgy, marine electronics, industrial gas production, etc.



MF50 Miniature thermal gas mass flowmeter integrated type



MF50 Miniature thermal gas mass flowmeter split-type

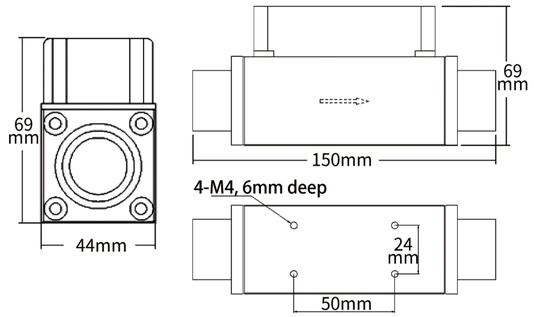
technical parameters

Term	MF50 miniature thermal gas mass flow meter parameters
Operating power supply	DC24V/2.5W
Medium temperature	-10~55℃
Operating pressure	RS485(Modbus RTU protocol)
Output method	4-20mA
Mechanical connection	BSPT female thread and G female thread are available; please refer to the mechanical interface connection dimensions for details.
Accuracy (%)	±(1.5FS)
Humidity	<95%RH(No frost, no ice)
Display	Instantaneous traffic, cumulative traffic
Communication method	50-1000 ms
Response time	≤1.0MPa (pressure can be customized), integrated pressure measurement and display can be customized.

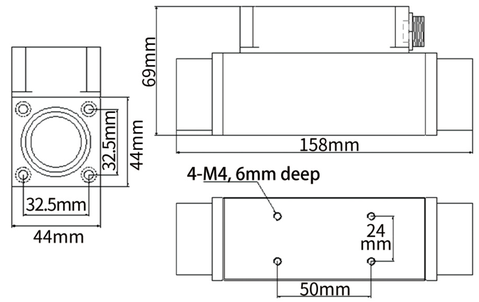


Product size

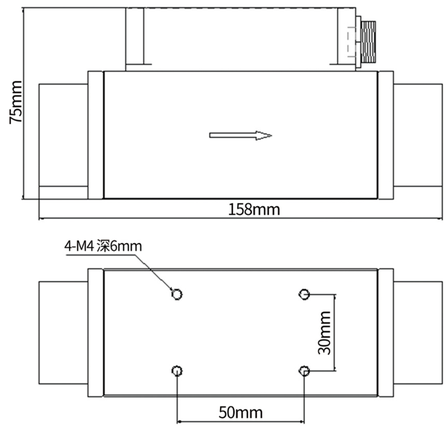
MF50 integrated thermal gas flow meter dimensions

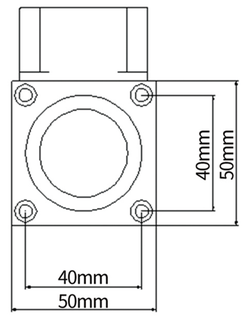


DN8-DN20 Dimensions



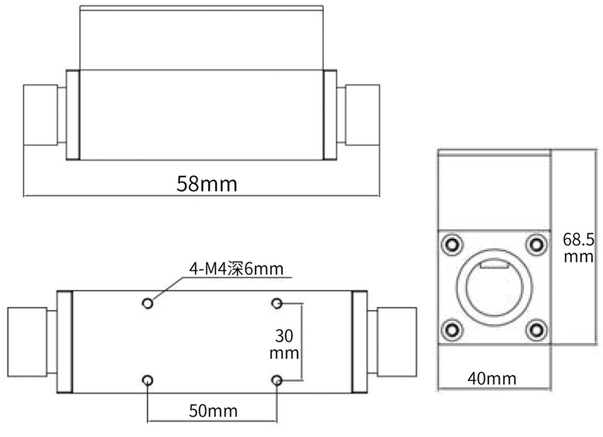
DN25 Dimensions



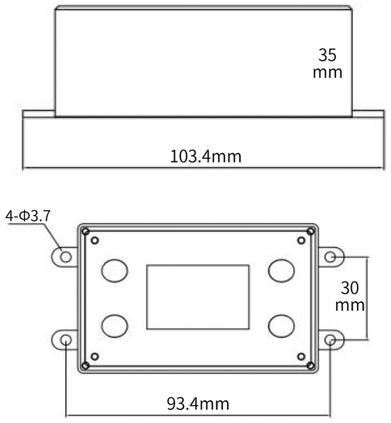


DN32 Dimensions

MF50 Split-type thermal gas flow meter dimensions



Body base



Split display section

JJ-MF51 THERMAL GAS MASS FLOW METER

Thermal gas mass flow meters are designed based on the principle of thermal diffusion. These instruments use a constant temperature difference method to accurately measure gases. They offer advantages such as small size, high digitalization, easy installation, and accurate measurement. Because the sensor temperature is always automatically and consistently about 30℃ higher than the ambient temperature, thermal gas flow meters do not require temperature compensation in principle. Constant temperature difference thermal gas mass flow meters are unaffected by both temperature and pressure; they are true direct mass flow meters, eliminating the need for users to correct for pressure and temperature.

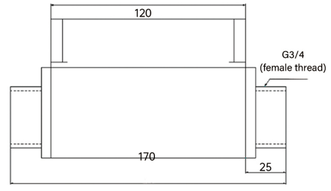
Applications: Aerospace, semiconductor manufacturing, medical and biological, electronics and automotive, steel metallurgy, marine electronics, industrial gas production, etc.

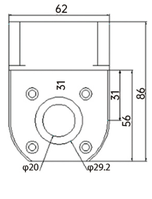


technical parameters

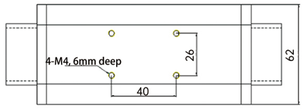
Term	MF51 Miniature thermal gas mass flow meter parameters			
Measuring medium	Various gases (except acetylene)			
Pipe diameter range	DN20 ~ DN50			
Flow rate range	1-100 Nm/s			
Accuracy	±1 ~ 2.5%			
Operating temperature	Sensor: -40 to +250℃; Converter: -20 to +55℃			
Operating pressure	Medium pressure ⩽ 3.0MPa			
Display items	Standard volumetric flow rate, cumulative flow rate, standard flow velocity, etc.			
Flow rate range	0.6-60 Nm3/h	1-100 Nm3/h	1.6-160 Nm3/h	2.4-240 Nm3/h
Vessel diameter	DN20	DN25	DN32	DN40
Mechanical interface	G3/4 Female thread	G1 Female thread	G1-1/4 Female thread	G1-1/2 Female thread
Power supply	DC24V / 25W			
Response speed	1s			
Output signal	4-20mA、RS485、Modbus RTU protocol			
Pipe material	Anodized aluminum, stainless steel			
On-site display	Four-line Chinese character LCD display			
Protection level	IP40			

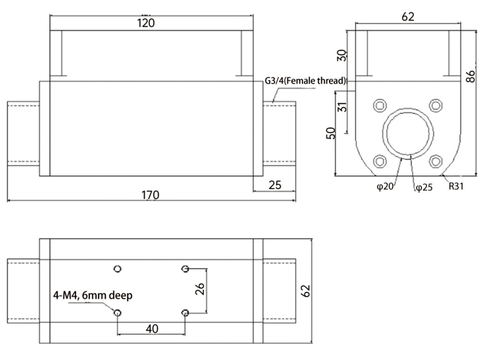
Product size Unit：mm



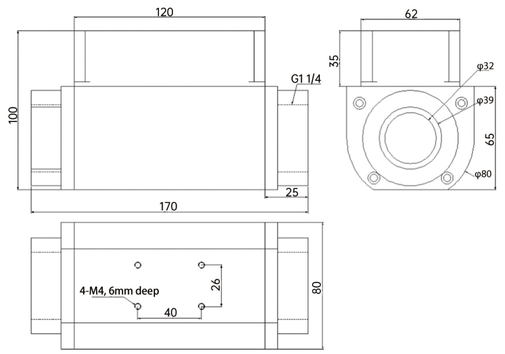


DN20 Dimensions

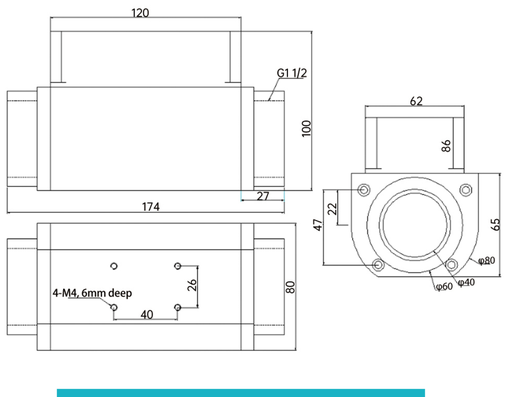




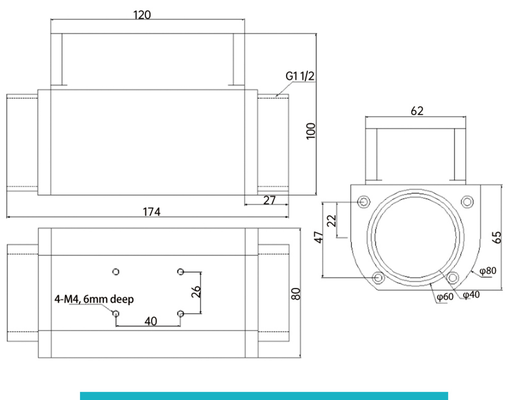
DN25 Dimensions



DN32 Dimensions



DN40 Dimensions



DN50 Dimensions

JJ-MF52 THERMAL GAS MASS FLOW METER

Miniature gas mass flow meters are specifically designed for the measurement and process control of various small-flow-rate gases. This series of sensors utilizes advanced microelectromechanical systems (MEMS) flow sensing chips and is suitable for various clean gases. Unique packaging technology allows for use in various pipe diameters, offering low cost, easy installation, and no need for temperature or pressure compensation. They can replace traditional volumetric or differential pressure flow meters.

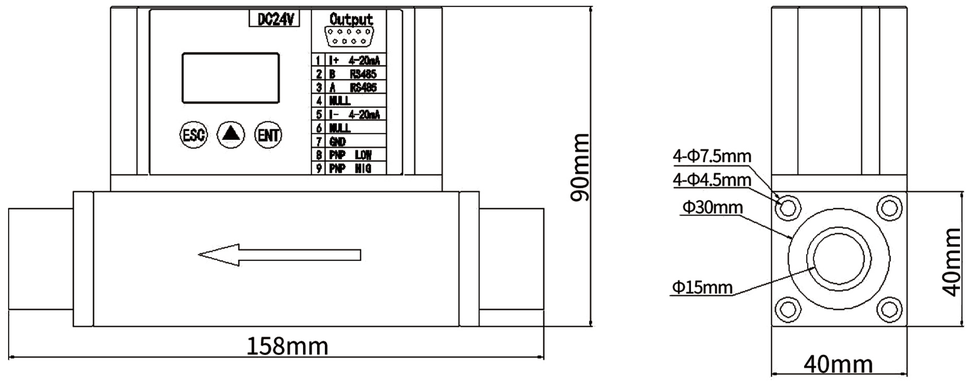
Applications: Aerospace, semiconductor manufacturing, medical and biological, electronics and automotive, steel metallurgy, marine electronics, industrial gas production, etc.

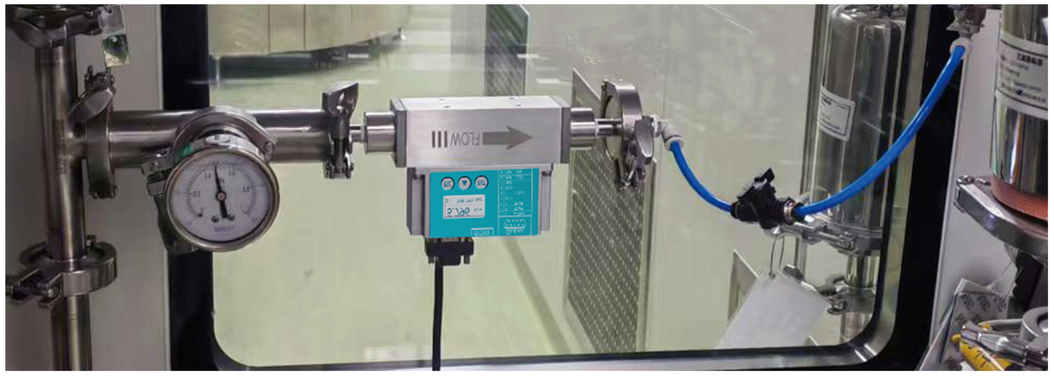


technical parameters

Term	MF52 Miniature thermal gas mass flow meter parameters
Operating power supply	DC24V/2.5W
Medium temperature	-10~55℃
Operating pressure	⩽1.5MPa(3MPa can be customized)
Output method	4-20mA or 1~5V; 0-5V / 0-10V selectable.
Communication method	RS485(Modbus RTU protocol)
Range ratio	1:100
Selectable standard temperature conditions	0℃, 20℃, 25℃ are user-adjustable; the default is 25℃.
Protection class	IP40
Pipe diameter	DN8 and DN15 are available.
Accuracy (%)	±(1.0FS)%
Humidity	<95%RH(No frost, no ice, no condensation)
Display	Instantaneous traffic, cumulative traffic
Mechanical connection	PT1/2 or G1/4 internal thread; other thread interfaces can be customized.
Response time	50 ms
Preheating time	3-4 minutes (preheating is recommended for best results)
Selectable gas type	Air、N2、O2、CH4、Ar、CO2、He、H2、C3H8 (Other gases can be customized.)
Other signal outputs	PNP output can be selected

Product size





JJ-MF60 THERMAL GAS MASS FLOW METER

Miniature gas mass flow controllers are specifically designed for the measurement and control of various small-flow-rate gases. The sensors in this series are all fabricated using advanced microelectromechanical systems (MEMS) flow sensing chips, combined with digital signal processing technology and flow control algorithms, to achieve precise control and intelligent processing of various gas flow rates.

Application areas: Aerospace, semiconductor manufacturing, medical and biological, electronics and automotive, steel metallurgy, marine electronics, industrial gas production, and other industries.



MF60 - External solenoid valve



MF60 - Built-in solenoid valve

technical parameters

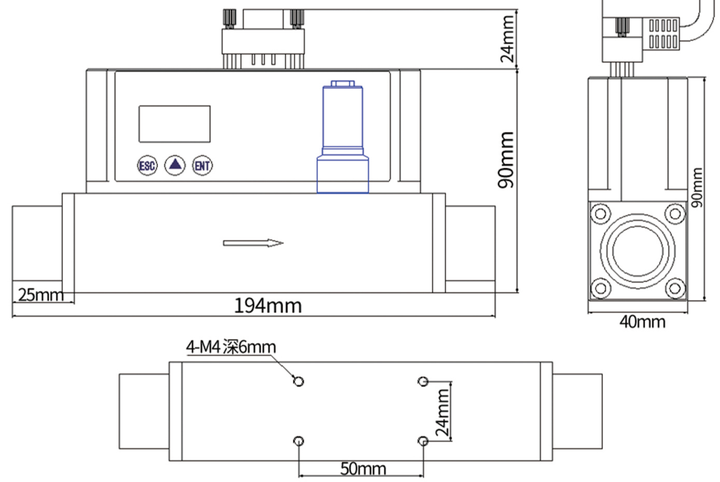
Term	MF60 Miniature thermal gas mass flow meter parameters
Operating power supply	DC24V/12W
Control and measurement range ratio	1：100
Typical control response time	Less than 1.5 seconds (T90)
Measurement response time	<50mS
Mechanical connection	G1/4, PT1/2 internal threads; other threads can be customized.
Accuracy (%)	Control accuracy: ±1.0% SP, Measurement accuracy: 1%fs
Flow specifications	(0~10、20、30、50、100、200、300、500）SCCM
	(0~1、2、3、5、10、20、30）SLM
	(0~50、100) SLM；(0-200、300）SLM
Output method	4-20mA （1-5V），Customizable 0-5V and 0-10V
Working pressure range	Measurement：0-1.5MPA
	Control：10SCCM-30SPLM Pressure：0.1-1.0MPa
	100SPLM Pressure：0.1-0.65MPa
	300SPLM Pressure：0.1-0.5MPa
Control method	Button operation，Modbus,4-20mA(1-5V)，Customizable 0-5V and 0-10V
Humidity	<95%RH（No frost, no ice, no condensation.）
Communication method	RS485（Modbus RTU protocol）
Operating temperature	-10~55°C
Protection class	IP40
Valve type	Normally closed type

Note: The above data were measured at 25°C, 101.32 kPa, and in dry air.

Other features	MF60 Miniature thermal gas mass flow meter parameters
Selectable standard temperature conditions	0°, 20°, 25°, adjustable by the user, default is 25°
Selectable gas type	Air, N2, O2, CH4, Ar, CO2, He, H2、C3H8
Standard operating differential pressure	0.1-0.8mpa，flow specifications<=30SLM
	0.1MPA-0.6MPA 30SLM<flow specifications<=100SLM
	0.1MPA -0.4MPA 100SLM<flow specifications<300SLM
Unconventional operating differential pressure	Customizable

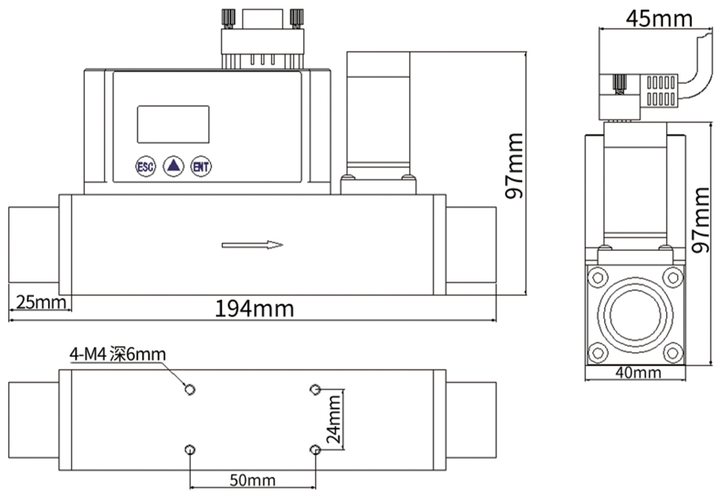
Product size

MF60 Series - built-in controller dimensions

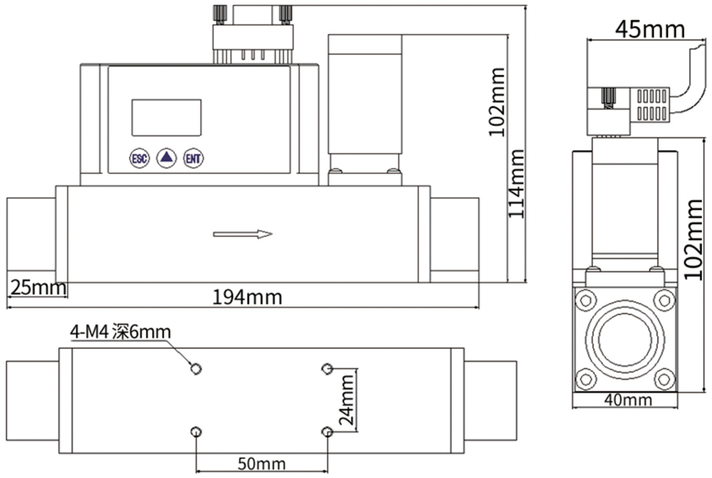


0-30SLPM Standard differential pressure flow rate specifications and dimensions

MF60 Series - external controller dimensions



30-100SPLM External valve normal differential pressure dimension diagram



200-300SPLM External valve normal differential pressure dimension diagram

JJ-MF61THERMAL GAS MASS FLOW METER

Miniature gas mass flow meters are specifically designed for the measurement and process control of various small-flow gases. This series of sensors utilizes microelectromechanical systems (MEMS) flow sensing chips and is suitable for various clean gases. Unique packaging technology allows for use in various pipe diameters, offering low cost, easy installation, and no need for temperature or pressure compensation, making them a viable replacement for traditional volumetric or differential pressure flow meters.



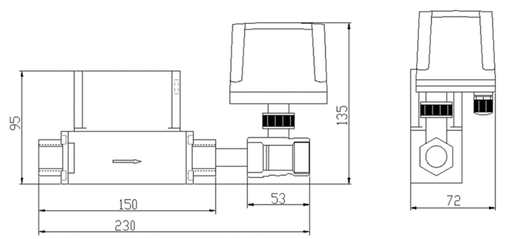
Functional features

- Precise flow control is achieved by using mass flow meter measurements as feedback signals to control a motor-driven regulating valve.
- The flow sensor employs advanced microelectromechanical systems (MEMS) technology, offering fast response and high accuracy, suitable for various clean gases.
- The regulating valve utilizes a servo motor for precise valve opening control.
- High accuracy and good repeatability across the measuring range.
- Standard mechanical interface for easy installation.
- RS485 communication output with standard MODBUS RTU protocol.
- An LCD displays instantaneous and cumulative flow rates clearly and intuitively, providing easy readings.

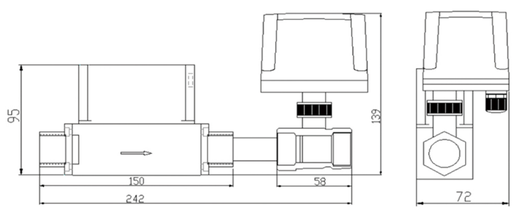
technical parameters

Term	MF61 Miniature thermal gas mass flow meter parameters
Power supply	DC24V / 3W
Range ratio	1:20
Valve type	Normally closed type
Operating temperature	-10~55℃
Output method	4-20mA
Communication method	RS485(Modbus RTU protocol)
Protection class	IP40
Control method	Button operation；Modbus；4-20mA
Mechanical connection	PT1/2、PT3/4、PT1、PT1-1/4、PT1-1/2 Other interfaces are not currently supported.
Accuracy (%)	Control accuracy: ±1.5% SP; Measurement accuracy: 1.5fs% <1000L/min; 2fs% >1000L/min
Standard conditions	The default temperature is 25℃, but it can be customized to 0℃ or 20℃ (standard temperature).
Measurable gases	ir, N2, O2, CH4, Ar, CO2, He, H2, C3H8. If the flow controller is not for hydrogen or non-hydrogen gases, please do not use it to measure hydrogen or hydrogen gas.
Humidity	<95%RH(No frost, no ice)
Operating pressure	Measurement: 0-1.5MPa; Control: 0-1.0MPa
Control response time	＜20s（T90）
Measurement response time	<200ms
Output method	4-20mA
Communication method	RS485(Modbus RTU protocol)
Operating pressure difference	0~1MPa
Nominal diameter	DN15、DN20、DN25、DN32

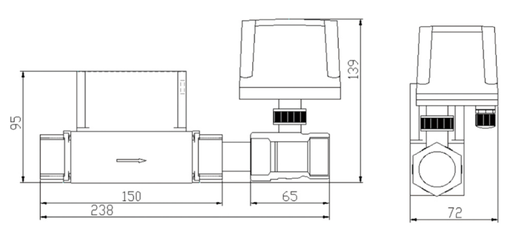
Product size



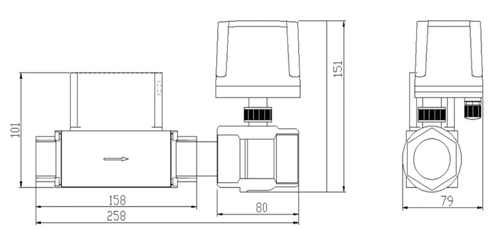
DN15 Dimensions



DN20 Dimensions



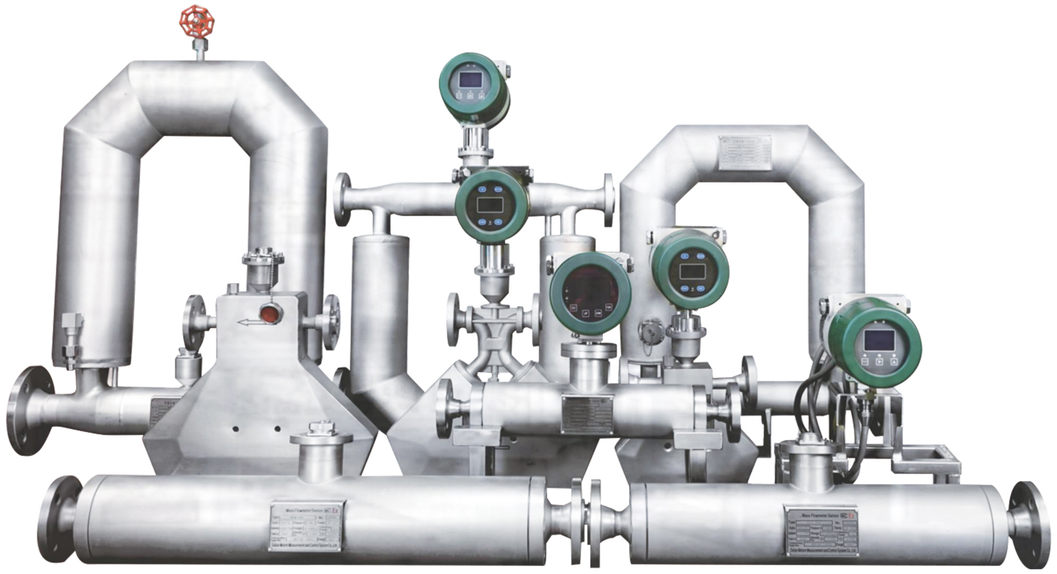
DN25 Dimensions



DN32 Dimensions

JJ-FM900 CORIOLIS MASS FLOW METER

The JJFM900 series Coriolis mass flow meter is a high-precision flow measurement instrument developed in collaboration with renowned universities and research institutes over more than 20 years. Multiple professional challenges, including materials, welding, stress treatment, and signal processing, were overcome, and it has passed testing by national and provincial metrology institutes, obtaining corresponding test reports and certificates. This product can directly and accurately measure the mass flow rate, density, and temperature of fluids in closed pipes. Currently, the main popular types are the Z series (straight pipe), U series (U-tube), and T series (triangular). It is primarily used in industries such as petrochemicals, food and pharmaceuticals, power and environmental protection, and machinery manufacturing for monitoring in batching and mixing processes and commercial metering.



Functional features

- Wide range of applications; in addition to normal fluid measurement, it can measure media that are difficult to measure with conventional instruments, such as non-Newtonian fluids,
- Low installation requirements; no upstream or downstream straight pipe sections required; reliable and stable operation; low maintenance rate.
- High-precision measurement: 0.1%, 0.15%, 0.2%
- Range ratio up to 1:50, low pressure loss
- Various slurries, high-viscosity fluids, suspensions, gases, etc.
- Available models include conventional, heat-tracing jacketed, cryogenic, high-temperature, high-pressure, and sanitary types...

Flow range

Type	Nominal Diameter (mm)	Flow Range	Accuracy (%)	Structure	Pressure Rating (MPa)	Medium Temperature (℃)	Vibrating-tube Material (Default: 316L)
Standard straight-pipe type	8	96~960	0.2	Integrated / Split	4	-20~200	316L
	10	150~1500	0.2		4	-20~200	316L
	15	300~3000	0.2		4	-20~200	316L
	20	600~6000	0.2		4	-20~200	316L
	25	960~9600	0.2		4	-20~200	316L
	32	1800~18000	0.2		4	-20~200	316L
	40	3000~30000	0.2		4	-20~200	316L
	50	4800~48000	0.2		4	-20~200	316L
	80	12000~120000	0.2		4/10	-50~200	316L
Sanitary straight-pipe type	20	450~4500	0.2		1.6/5	-50~200	316L
	25	900~9000	0.2		1.6/5	-50~200	316L
	32	1440~14400	0.2		1.6/5	-50~200	316L
	40	2700~27000	0.2		1.6/6	-50~200	316L
	50	4500~45000	0.2		1.6/6	-50~200	316L
	65	8400~84000	0.2		1.6/7	-50~200	316L
Micro-bend type	8	150~1500	0.2		4/13	-50~200	316L / Hastelloy-C
	15	450~4500	0.2		4/10	-50~200	316L
	25	1500~15000	0.2		4/7	-50~200	316L
	40	3000~30000	0.2		4/10	-50~200	316L
	50	6000~60000	0.2		4/8	-50~200	316L
	80	12000~120000	0.2		4/8	-50~200	316L
Triangular	3	9.6~96	0.2	Split	4/14	-200~200/-50~200	316L / Hastelloy-C
	6	54~540	0.2	Integrated / Split	4/8	-200~200	316L/Hastelloy-C/Monel
	8	96~960	0.2		4/8	-50~200	316L / Hastelloy-C
	10	150~1500	0.2		4/8	-50~300	316L/Hastelloy-C/Monel
	15	300~3000	0.2		4/8		316L / Hastelloy-C
U-type	20	600~6000	0.2		4/7/25	-200~200	316L
	25	960~9600	0.2		4/7/25	-50~200	316L / Hastelloy-C
	32	1800~18000	0.2		4/7/25	-50~300	316L
	40	3000~30000	0.2		4/7/25		316L / Hastelloy-C
	50	4800~48000	0.2		4/7/25		316L / Hastelloy-C
	80	12000~120000	0.2		4/25	-200~200/-50~200	316L
	100	19200~192000	0.2		4	-200~200/-50~200	316L
	150	36000~360000	0.2		4	-200~200/-50~200	316L

technical parameters

Term	FM900 Coriolis mass flow meter parameters		
Measurement accuracy	±1℃	Measurement diameter range	DN3~DN25
Ambient temperature	-40~60℃	Flow measurement accuracy	±0.1~0.2%
Housing material	SS304、SS316L	Repeatability	±0.05~0.1%
Explosion-proof standard	Ex db IIC T6 Gb	Density measurement range	0.3~3g/m³
Protection class	IP67	Measurement accuracy	±0.002g/m³
Communication	MODBUS；HART	Temperature range	-200~+350℃
Power supply	22~245V AC or DC		
Output signal	4~20mA；Pulse signal；RS485		
Measuring tube material	SS316L, Hastelloy C, titanium material		
Operating pressure	Standard pressure: 0~4.0MPa; High pressure: 25~40MPa		
LCD display content	Instantaneous flow rate, cumulative flow rate, temperature, density, concentration, positive and negative cumulative data; with power-off data saving and data loss recovery functions.		
Optional	Split converter, integrated converter		

Z-series Coriolis mass flow meter

After years of scientific research, the Z-series straight-tube Coriolis flowmeter has been successfully developed. It has passed the testing of national and provincial metrology institutes, meeting the 0.1 class requirement, and its range ratio can reach 1:50. Features of the straight-tube type:

- The pipe is less likely to retain the measured medium, ensuring hygiene and cleanliness, meeting 3A food-grade hygiene standards;
- Can be used to replace other instruments such as densitometers and concentration meters according to customer needs;
- Straight pipe structure, low pressure loss, and energy saving rate can be improved by more than 50%;
- Small size, easy installation, space-saving, and no straight pipe section requirements;
- Utilizes digital high-frequency technology, significantly improving measurement accuracy, with a high measurement accuracy and range ratio of up to 1:50, suitable for trade settlement;
- Can realize the measurement of minute flow rates, gas flow rates, and multiple mixed fluids in industrial applications;
- Stable operation, strong anti-interference ability, and fast calculation speed, suitable for process control of material proportioning.

Flow meter product types







Straight pipe installation dimensions table

Specification	Flange spacing (mm)	Bottom installation height (mm)	Upper installation height (mm)	Outer shell diameter (mm)	Weight (kg)
JJFM900-Z-008Z	492	45	235	82	10
JJFM900-Z-010Z	542	47.5	238	87	12
JJFM900-Z-015Z	622	52.5	238	87	13
JJFM900-Z-020Z	685	57.5	251	106.5	18
JJFM900-Z-025Z	751	70	257	117	23
JJFM900-Z-032Z	867	70	264	137	31
JJFM900-Z-040Z	963	79	297	157	37
JJFM900-Z-050Z	1053	82.5	297	157	42
JJFM900-Z-080Z	1185	115	312	219	66
JJFM900-Z-0100Z	1185	130	330	325	90
JJFM900-Z-0150Z	1672	140	429	355	105

U-series Coriolis mass flow meter

The U-series Coriolis mass flow meter is a high-precision mass flow measurement instrument. It features flexible configuration, powerful functions, and high performance-to-price ratio, making it a commonly used structure among mass flow meters. It has low requirements for fluid conditions and exhibits excellent performance even in harsh working environments.

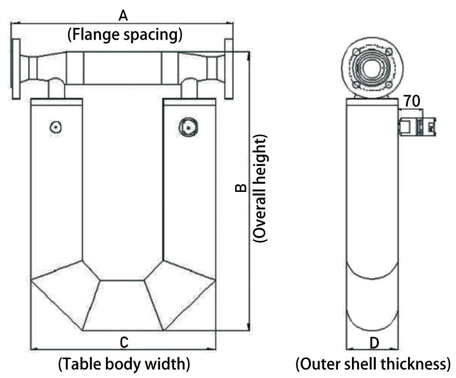
Flow meter product types



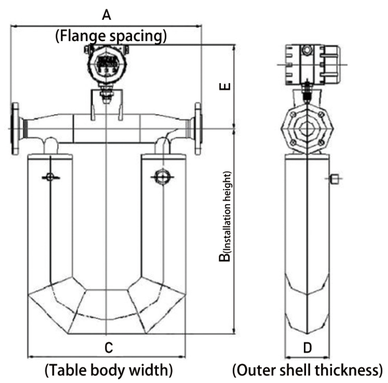




U-shaped outline diagram



Split type



Standard integrated

U-shaped installation dimensions table

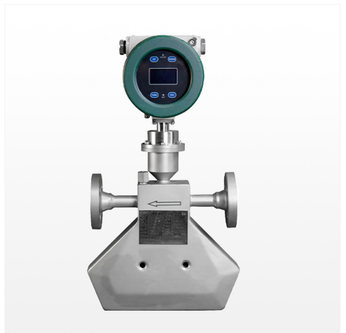
Specification	Flange spacing (mm)	Bottom installation height (mm)	Meter width (mm)	Shell thickness (mm)	Upper installation height (mm)	Weight (kg)
JJFM900-020	540	478	468	108	245	17
JJFM900-025	540	492	468	108	245	17.5
JJFM900-032	544	517	468	108	245	24
JJFM900-040	600	635	500	140	267	32
JJFM900-050	606	653	500	140	267	36
JJFM900-080	866	857	779	219	316	87.5
JJFM900-100	950	977	833	273	340	165
JJFM900-150	1300	1223	1144	324	340	252
JJFM900-200	1300	1380	1220	400	358	350
JJFM900-250	1400	1573	1340	476	365	420
JJFM900-300	1600	1760	1465	530	374	510

(Subject to the actual product)

T-series Coriolis mass flow meter

The T-series Coriolis mass flow meter features a triangular sensor structure. This structure makes it easy to measure small instantaneous flow rates and ensures measurement accuracy.

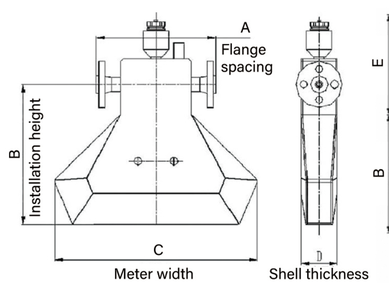
Flow meter product types

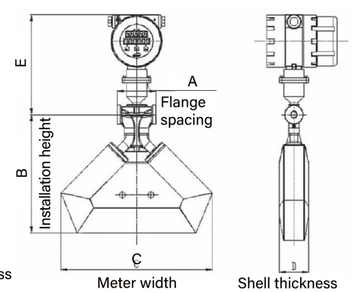


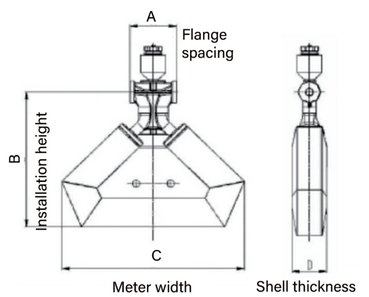




Triangular shape diagram







JJFM900-003~008 Specification sensor outline drawing

JJFM900-010~015 Specification sensor outline drawing

JJFM900-010~015 Specification sensor outline drawing

Triangular installation dimension table

Specification	Flange spacing (mm)	Bottom installation height (mm)	Meter width (mm)	Shell thickness (mm)	Upper installation height (mm)	Weight (kg)
JJFM900-003	196	176	250	54	270	4.8
JJFM900-006	250	263	360	70.5	289	8.1
JJFM900-008	250	175	395	70.5	289	8.2
JJFM900-010	95	283	370	70.5	264	6.5
JJFM900-015	95	302	405	70.5	264	6.5

(Subject to the actual product)

Coriolis mass flow meter - converter

JJFM900-52 Series field model

The JJFM900-52 series converter is a field-type signal conversion instrument. It mainly consists of a basic converter and a display unit. It is installed in a protective (explosion-proof) instrument housing with an explosion-proof rating of Ex db IIC T6 Gb. The JJFM900-52 series converter is used in the field with a Coriolis mass flow meter sensor. It features sensor vibrating tube drive, corresponding signal detection, flow calculation and display, flow totalization, and long-distance signal transmission.

Converter field-type meter display

JJFM900-523-II type



JJFM900-523-I type



JJFM900-522 type



technical parameters

Term	Coriolis mass flow meter - converter parameters
Display	128x64 dot matrix three-line LCD display
Window size	54x40mm（WxH）（Φ 80mm）；56x29mm（WxH）（Φ 80mm）
Measurement display unit	Mass flow：g/s、g/min、g/h、kg/s、kg/min、kg/h、kg/day、t/s、t/min、t/h、t/day、1b/s、1b/min、1b/h、lb/day；Mass flow totality：g、kg、t、lb；Volumetric flow rate：ml/s、ml/min、ml/h、L/s、L/min、L/h、L/day、m^3/s、m^3/min、m^3/h、m^3/day、Gal/s、Gal/min、Gal/h、Gal/day；Temperature：°C、°F、K Volumetric flow rate total：ml、L、m^3、Gal；Density：g/cm^3、g/L、g/ml、kg/L、kg/m^3；
Ambient Temp.	-40~60°C
Converter output signal	0-10000Hz pulse frequency signal, flow signal (open collector signal), equivalent pulse signal, flow signal, 4~20mA DC current signal, flow, density, temperature output signal (selectable), current output load capacity not less than 750 ohms (24VDC power supply).
Output Sig. Accuracy	Pulse signal: 0.05%; Current signal: 0.2%
Comm. Signals	RS485, MODBUS protocol/HART optional
Power Supply	24VDC (18-36VDC) power supply: 7W; 220VAC (85-265VAC) power supply: 10W 22-245V AC or DC power supply: 15W
Prot. & Explosion-proof	Protection rating: IP67; Explosion-proof rating: Ex db IIC T6 Gb
Dim. & Weight	Dimensions：Φ125 X 180mm；Weight：≈2.7kg



DISPLAY INSTRUMENT

This system integrates data acquisition, display, analysis, alarm, printing, and communication for industrial process automation systems; it supports various sensor inputs, including current, voltage, resistance, RTD, thermocouple, and other signal inputs.

JJ-71R ULTRA-THIN WIDESCREEN DATA LOGGER

In recent years, due to constraints such as installation depth, number of data acquisition channels, and operational comfort, conventional products have become insufficient to meet the needs of certain industrial sites, causing considerable inconvenience to users. Therefore, a product that is thin, highly integrated, colorful, easy to operate, fully functional, highly reliable, and offers ideal cost-effectiveness is of great practical significance. Our company's ultra-thin widescreen data logger aims to meet the rational needs of users and enhance their user experience. It is primarily used in various industries including petroleum and petrochemicals, chemicals, paper and plastics, textiles and printing, metallurgy and building materials, science and education, national defense, biomedicine, municipal environmental protection, energy metering, food and grain, tobacco and beverage, equipment manufacturing, complete equipment sets, and agriculture, forestry, animal husbandry, and fisheries.



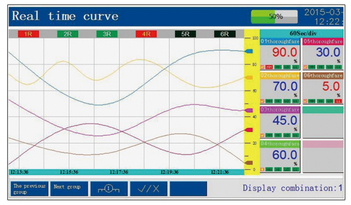
Functional features

- Supports touch functionality (additional function).
- Supports timed printing functionality (additional function).
- Supports Ethernet communication functionality (customized function).
- Supports communication data acquisition functionality (customized function).
- Supports transmitter output functionality (optional function).
- Supports Chinese/English language switching functionality (optional function).
- Supports standard serial communication and printing functionality (optional function).
- Data recording/transfer backup functionality (standard function).
- Supports dual communication function (additional function).
- Supports DC power supply (additional function).
- Supports vacuum degree calculation function (customized function).
- Supports power supply output function (optional function).
- Supports alarm output function (optional function).
- Supports PID control function (optional function).
- Supports flow accumulation temperature and pressure compensation function (optional function).
- Universal analog input (standard function).

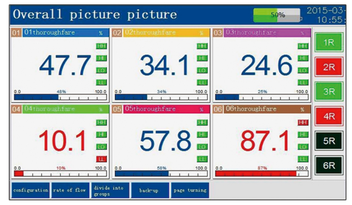
technical parameters

Term	71R Ultra-thin widescreen data logger specifications
Display	7-inch true-color TFT LCD (800*480 dot matrix) real-time display: ±0.2% F.S.; recall accuracy: ±0.2% F.S.
Processor	The high-performance ARM Cortex-M3 32-bit RISC core enables multi-channel signal acquisition/ recording/display and multi-channel alarms.
Storage module	High-capacity parallel NAND flash memory chips store historical data, while serial FRAM memory chips store key information such as system configuration parameters.
Input function	Input Specifications: Fully isolated universal input, supports up to 16 analog inputs Voltage Input: 0-5V, 1-5V, 0-20mV, 0-100mV Current Input: 0-10mA, 4-20mA, 0-20mA Resistance Input: Res (0~400Ω) Resistance temperature detectors (RTDs): PT100, Cu50, G53, Cu100, BA1, BA2 (requires balanced resistance of three wires, lead resistance <10Ω) Thermocouples: S, B, K, T, R, E, N, J Radiation pyrometers: F1, F2 Tungsten-rhenium: WRe3-25, WRe5-26; other signal inputs require customization (such as D1/P1, etc.).
Output function	Power distribution output: Supports 3 sets of transmitter isolated power distribution +24VDC, each set of power distribution ⩽60mA, supports 12VDC and 5VDC power distribution. Transmission output: Supports 4-channel standard current 4-20mA transmission output It facilitates the acquisition of data by display instruments or DCS/PLC, enabling long-distance signal transmission. Relay alarm output: Supports up to 6 relay alarms, contact capacity 1A@250VAC/1A@30VDC Configurable upper limit, upper limit, lower limit, and lower lower limit alarms
Communication printing	Communication interface: RS232C and RS485 optional, supporting Modbus RTU protocol Printing interface: RS232C for direct connection to a mini printer, baud rate 1200
Recording function	Recording capacity: 64/128/192/248MB (FLASH capacity is selectable); Recording interval: 1 s to 240 s, with 11 settings: 1/2/4/8/12/24/36/60/120/180/240 s selectable; Recording time: The recording time is related to the FLASH memory capacity, the number of input points, and the recording interval. The formula is as follows: (The units of the values substituted must be consistent with those in the formula.) $\text{Number of days recorded} = \frac{\text{FLASH capacity (MB)} \times 1024 \times 1024 \times \text{Recording interval (s)}}{\text{Number of channels} \times 16 \times 24 \times 3600}$
Data transfer	Data backup and transfer: Supports USB 1.1 and 2.0 flash drives, and supports data transfer from 1GB to 32GB flash drives.
Power supply	100~240VAC (rated voltage 220VAC), 50/60HZ AC power supply, supports 24VDC power supply.
Protection function	Power failure protection: Built-in memory protects parameters and historical data, permanently saving them after a power outage. Clock protection: Integrated hardware clock ensures accurate operation even after power failure.
Working environment	Temperature: 0~50°C (avoid direct sunlight); Relative Humidity: 0~85% RH (non-condensing); Altitude: <2000m
Transport & Storage Conditions	Temperature: -20~60°C (avoid direct sunlight); Humidity: 5~95% RH (non-condensing)
Net weight of the instrument	⩽1.5kg

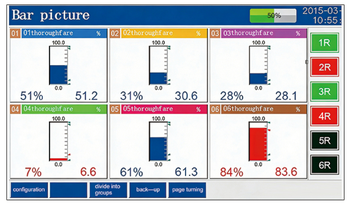
Display screen



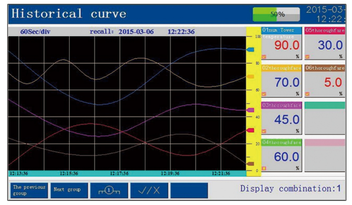
Real-time curve



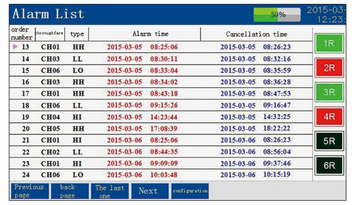
Overall view



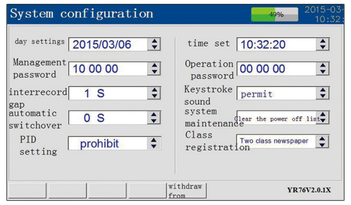
Bar graph screen



Historical curve

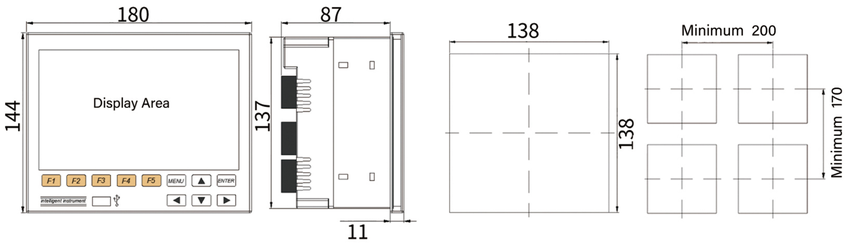


Alarm List



Backup configuration

Product size Unit：mm



Instrument dimensions

Single meter opening size

Container opening size

JJ-72R TOUCHSCREEN DATA LOGGER

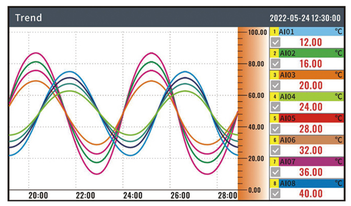
This industrial paperless data logger features a 7-inch touchscreen color LCD and up to 32 channels of isolated universal signal input. It can accept industrial standard signals such as current, voltage, thermocouples, RTDs, and frequency (customizable). It can also be configured with alarm relay output and current transmitter output. It acquires channel signals in real time, displaying them in numerical, bar, and curve formats. Real-time data is saved to the logger's internal memory to form historical data, with a recording interval as fast as 1 second. Historical data can be quickly transferred via USB devices, and it supports RS485 and Ethernet communication interfaces.



Functional features

- High-definition 7-inch touchscreen color LCD screen
- Standard 138*138 aperture size
- High-speed USB high-capacity flash drive interface
- Up to 32 universal isolated input channels
- Up to 16 relay outputs
- Up to 8 current transmitter outputs
- 2-channel 24VDC power distribution
- RS485 communication interface - standard Modbus RTU
- Ethernet communication interface - standard Modbus TCP
- Mini printer data curve printing interface
- 64MB memory, 900,000 historical records
- 256 channel alarm records
- 256 power failure records, operation log
- Built-in Chinese/English bilingual interface for free switching
- Virtual channel calculation function
- RS485 digital input acquisition

Display screen



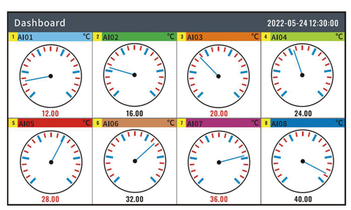
Real-time curve



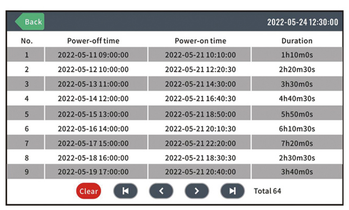
Digital display screen



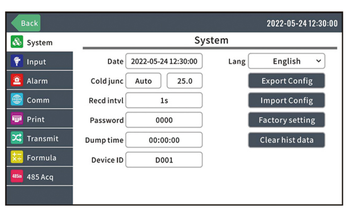
Bar graph screen



Dashboard display



Alarm List



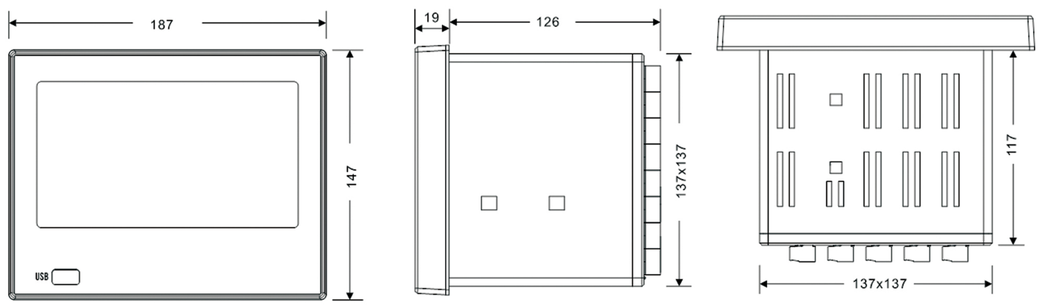
System configuration

Technical Parameters

Term	72R Touchscreen data logger specifications
Recorder Dims.	Panel dimensions: 187*147mm, depth: 145mm, aperture dimensions: 138*138mm
Display screen	7-inch color touchscreen LCD, 800*480 resolution
Meas. Channels*	Up to 24 universal analog inputs, expandable to 32 (frequency signal requires customization)
Meas. Accuracy	0.2% F.S.
Sampling period	1 second
Alarm relay*	16 normally open relays, 250VAC 3A, 30VDC 3A (resistive load)
Transmitter output*	Up to 8 channels of 4-20mA transmitter outputs, load ⩽750Ω, accuracy 0.2%
24VDC Dist.	24VDC power distribution: 2 channels 24VDC±10%, total output current ⩽120mA
RS485 Comm.	1 RS485 communication interface, standard Modbus RTU protocol
Ethernet Comm.*	1 Ethernet communication interface, standard Modbus TCP protocol (⩽3 connections)
RS485 Acquisition*	1 RS485 acquisition interface, standard Modbus RTU protocol
USB Interface	USB 2.0, supports 32GB high-capacity USB flash drives
Micro-printer Interf.*	TLL mini printer interface
Power supply	AC 100-240VAC 50Hz / DC 24VDC±10% (reverse connection protection) Power ⩽20W
Warm-up time	30 minutes after power is turned on
Oper. Env.	Temperature: -10~60°C; Humidity: 0~85%RH (non-condensing)
EMC Immunity	Power supply pulse: 2000V; Signal pulse: 1000V;
ESD Protection	Contact discharge: 4000V; Air discharge: 8000V
Withstand voltage	AC220V power supply: 1500V between terminals and ground; DC24V power supply: 500V between terminals and ground; Isolated type: 1000V between terminals.
Insul. Resist.	AC220V power supply, DC test voltage 500V 20MΩ; DC24V power supply, DC test voltage 100V 5MΩ.
Recording interval	1 s, 2 s, 5 s, 10 s, 15 s, 30 s, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes, 1 hour
Data memory	64MB memory, 900,000 (900k) records
Recording duration	32 channels, 1-second recording interval, 10-day recording period, dynamic cyclic overwrite storage.
Other recordings	Alarm list, power failure record, and operation log each contain 256 entries, stored in a cyclical overwrite format.
Installation method	Disc mounting, indoor use, panel IP65 protection rating
Recorder weight	1100 grams

【Note】* indicates optional features.

Product size Unit: mm



JJ-65R DATA LOGGER

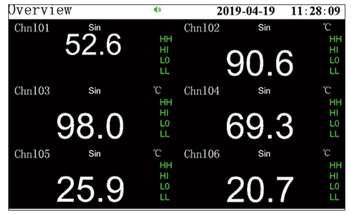
Data logger, 160*80mm panel size series. Accepts input signals such as current, voltage, thermocouple, and RTD. After calculation and conversion, the data is displayed locally in real time as data, bar graphs, and curves. Historical data is periodically digitized and stored in the machine's internal memory. The device can transfer and back up data via USB interface and read data via RS485 communication interface.



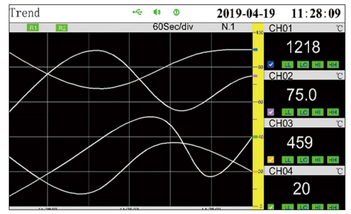
Technical Parameters

Term	65R Data logger specifications
Display	4.3-inch true-color TFT LCD
Precision	Real-time display: ±0.2% F.S.; Memory accuracy: ±0.2% F.S. (Thermocouple cold junction error should be excluded)
Processor	Utilizes a high-performance ARM Cortex-M3 32-bit RISC core, enabling multi-channel signal acquisition, recording, display, and alarm.
Input function	Input specifications: Supports up to 6 universal analog inputs；Voltage Input: 0-5V, 1-5V, 0-20mV, 0-100mV
	Current Input: 0-10mA, 4-20mA, 0-20mA；Resistance Input: Res (0~400Ω)
	RTD: PT100, Cu50, G53, Cu100, BA1, BA2；Thermocouple: S, B, K, T, R, E, N, J
	Radiation Pyrometer: F1, F2；Tungsten-Rhenium: WRe3-25, WRe5-26
Output function	Power distribution output: Supports 1 channel for centralized power distribution to the transmitter
	+24VDC, power distribution <60mA
	Transmitter Output: Supports 2 channels of 4-20mA standard current transmitter output, with a load
	capacity of 500Ω (maximum), for display instruments or DCS/PLC acquisition, enabling long-distance
	signal transmission.
	Relay alarm output: Supports 2-channel relay alarm output, contact capacity 3A@250VAC/3A@30VDC,
	and can be configured with upper limit, upper limit, lower limit, and lower lower limit alarms.
Power supply	220VAC power supply; 12VDC; 24VDC power supply
Communication printing	Communication interfaces: RS232C and RS485 communication options are available, supporting
	Modbus RTU protocol.
	Printing interface: RS232C direct connection to a mini printer, baud rate 1200
Recording function	Recording capacity: 64/128/192/248MB (FLASH capacity selectable);
	Recording interval: 1 s to 240 s, with 11 settings: 1/2/4/8/12/24/36/60/120/180/240 s selectable;
	Recording time: The recording time is related to the FLASH memory capacity, the number of input
	points, and the recording interval. The formula is as follows:
	(The units of the values substituted must be consistent with those in the formula.) Number of days recorded = FLASH capacity (MB) x 1024 x 1024 x Recording interval (s) / Number of channels x16 x 24 x 3600
Work environment	Ambient temperature: 0~50°C (avoid direct sunlight)
	Ambient humidity: 0~85% RH (non-condensing)
	Altitude: <2000 meters
Instrument net weight	Net weight: ⩽1.0Kg

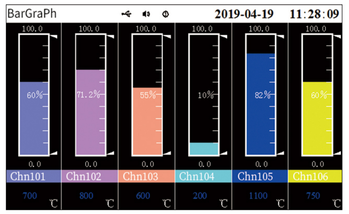
Display screen



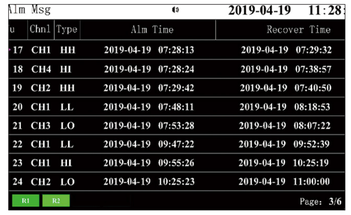
Overall view



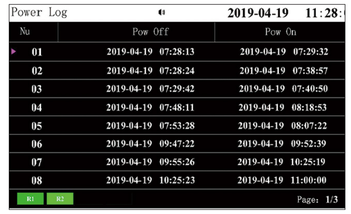
Real-time curve



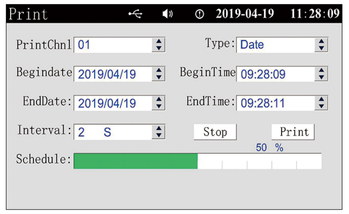
Bar graph screen



Alarm list

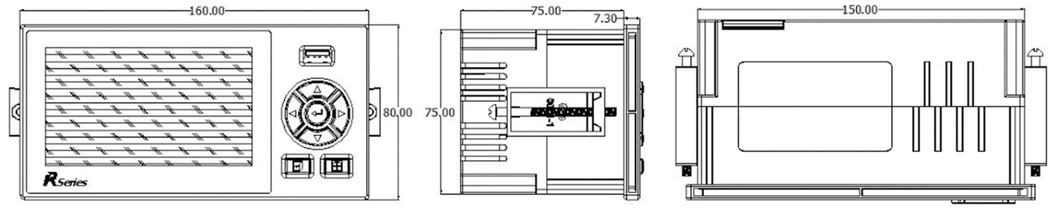


Power outage list



Print Data Page

Product size Unit: mm



JJ-68R DATA LOGGER

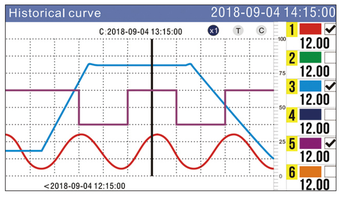
This industrial paperless data logger features a 6-channel universal input and a 160*80mm panel size. It supports industrial signals such as current, voltage, thermocouples, RTDs, and frequency (customizable), enabling signal data recording with a minimum recording interval of 1 second. Data can be quickly transferred and backed up via USB or read via RS485 communication. The multi-channel universal input displays channel data in real-time as numerical values, bar graphs, and curves. It includes built-in Chinese and English bilingual language support, which can be freely switched.



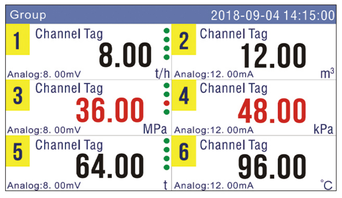
Technical Parameters

Term	68R Data logger specifications
Measurement channels	6-channel analog signal input
Measurement accuracy	0.2%F.S
Sampling period	1 second
Power distribution output	2 channels 24VDC±10%, 30mA per channel
Alarm relay	6 channels normally open relays, 250VAC 3A, 30VDC 3A (resistive load)
Transmitter output	2 channels 4-20mA transmitter outputs, load ⩽750Ω
Power supply	AC220V±10%　50Hz/24VDC±10%
Warm-up time	30 minutes after power-on
Operating environment	Temperature: -10~60℃ Humidity: 0-85%RH (non-condensing)
LCD screen	4-inch color LCD display
Data memory	16Mb, 900,000 records
Other records	256 alarm records, 256 point drop records, 256 operation log entries
Recording interval	1 s, 2 s, 5 s(default), 10 s, 15 s, 30 s, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes, 1 hour
RS485	1 route, standard Modbus RTU protocol
USB	USB2.0

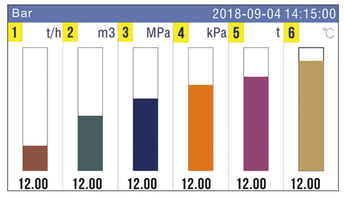
Display screen



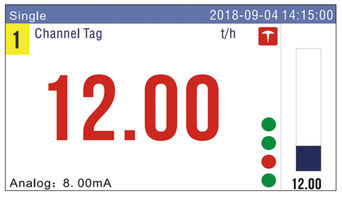
Real-time curve



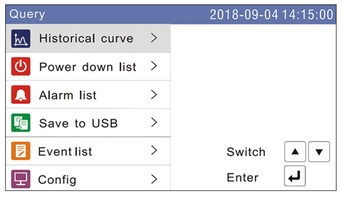
Digital display screen



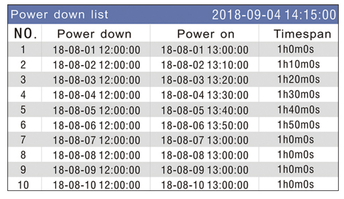
Bar graph screen



Patrol screen

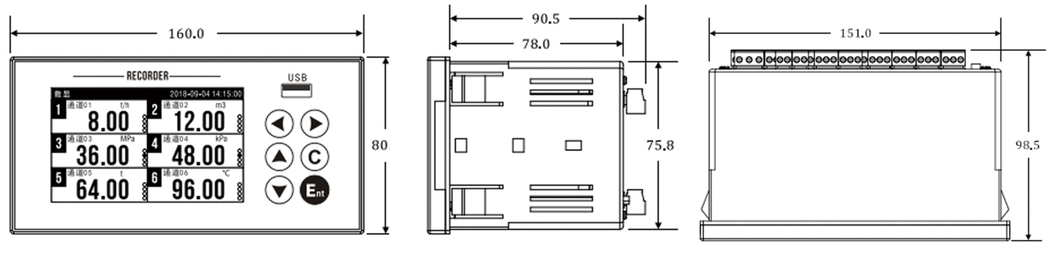


Function query



Power outage log

Display screen Unit: mm



JJ-80R DATA LOGGER

The data logger boasts strong data processing capabilities, high operational reliability, large recording and storage capacity, rich display content, excellent computing performance, and rapid system event response. The color data logger's performance ensures long-term high system stability even under more demanding and complex data processing tasks in industrial applications. It is primarily used in various industries including petroleum, chemical, paper and plastics, textile printing and dyeing, metallurgy and building materials, science and education, national defense, biomedicine, municipal environmental protection, energy metering, food and grain, tobacco and beverage, equipment manufacturing, complete equipment sets, and agriculture, forestry, animal husbandry, and fisheries.



Functional features

■ Diverse display functions

It displays overviews, bar charts, real-time curves, historical curves, list search screens, etc., offering a large amount of information, high resolution, clear images, and a user-friendly interface.

■ Fully functional input

Fully isolated universal input, capable of simultaneously inputting multiple signals without requiring module replacement; can be configured via software, offering strong versatility.

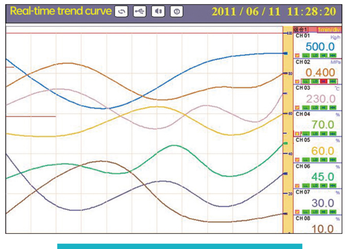
■ A wide range of optional/additional features

Optional features: Data backup, serial communication, serial printing, alarm function, power supply output, transmitter output, flow accumulation, Ethernet function, PID control, etc.
Additional features: Batch control, relay delay, alarm delay, etc.

■ High applicability and reliability

It requires very little routine maintenance, has low operating costs, is widely applicable, has good anti-interference performance, high stability, fast response speed, and strong data transfer compatibility.

Display screen



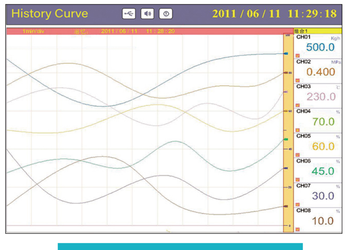
Real-time curve



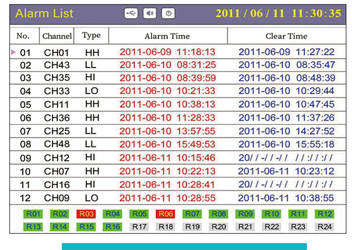
Digital display screen



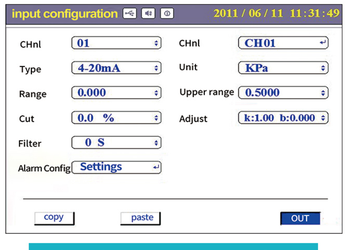
Bar graph screen



Historical curve



Alarm list

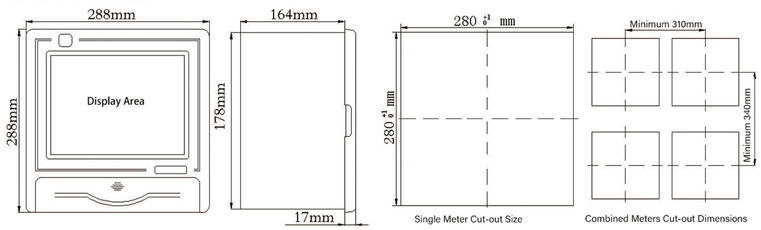


Signal Parameter Interface

Technical Parameters

Term	80R Data logger specifications
Display	10.4-inch true-color TFT LCD (800*600 dot matrix) real-time display: ±0.2% F.S. Memory accuracy: ±0.2% F.S.
Processor	The high-performance ARM Cortex-M3 32-bit RISC core enables multi-channel signal acquisition/recording/display and multi-channel alarms.
Storage module	High-capacity parallel NAND flash memory chips store historical data, while serial FRAM memory chips store key information such as system configuration parameters.
Input function	Input specifications: Fully isolated universal input, supports up to 48 analog inputs. Voltage input：0-5V、1-5V、0-20mV、0-100mV Current input：0-10mA、4-20mA、0-20mA Resistance input：Res （0~400Ω） Resistance temperature detectors (RTDs): PT100, Cu50, G53, Cu100, BA1, BA2 (requires balanced resistance of three wires, lead resistance <10Ω) Thermocouple：S、B、K、T、R、E、N、J Radiation pyrometer: F1, F2; Frequency input: Frequency signal (PI) (frequency range: 0-30000HZ) Tungsten-rhenium: WRe3-25, WRe5-26; other signal inputs require customization (such as D1/P1, etc.).
Output function	Power distribution output: Supports 16-channel transmitter isolated power distribution +24VDC, with each group's power distribution ⩽30mA, and also supports 12VDC and 5VDC power distribution. Transmitter Output: Supports 8-channel standard current transmitter output with a load capacity of 750Ω (maximum), facilitating data acquisition by display instruments or DCS/PLCs and enabling long-distance signal transmission. Relay alarm output: Supports up to 24 relay alarms, with configurable contact capacity of 1A@250VAC/1A@30VDC. Upper limit, upper limit, lower limit, lower lower limit alarm
Communication printing	Communication Interface: RS232C and RS485 communication options available, supporting Modbus RTU protocol Ethernet Interface: Standard RJ-45 Ethernet interface Printing Interface: RS232C for direct connection to a mini printer, baud rate 1200
Recording function	Recording capacity: 64/128/192/248MB (FLASH capacity is selectable); Recording interval: 1 s to 240 s, with 11 settings: 1/2/4/8/12/24/36/60/120/180/240 s selectable; Recording time: The recording time is related to the FLASH memory capacity, the number of input points, and the recording interval. The formula is as follows: (The units of the values substituted must be consistent with those in the formula.) $\text{Number of days recorded} = \frac{\text{FLASH capacity (MB)} \times 1024 \times 1024 \times \text{Recording interval (s)}}{\text{Number of channels} \times 16 \times 24 \times 3600}$
Data transfer	Data backup and transfer: Supports USB 1.1 and 2.0 flash drives, and supports data transfer from 1GB to 32GB flash drives.
Power supply	Supports 220VAC, 24VDC, and 12VDC
Protection function	Power failure protection: Built-in memory protects parameters and historical data, permanently saving them after a power failure. Clock protection: Integrated hardware clock ensures accurate operation even after power failure.
Work environment	Temperature: 0~50°C (avoid direct sunlight); Relative Humidity: 0~85% RH (non-condensing); Altitude: <2000m
Transport and storage conditions	Temperature: -20~60°C (avoid direct sunlight); Humidity: 5~95% RH (non-condensing)
Instrument net weight	⩽10Kg

Product size



JJ-68PR PAPER RECORDER

The integrated micro printer and paper recorder are connected via a dedicated line, enabling automatic/manual printing of data or curves. Printing styles are customizable, and parameters such as channel number, start time, curve scale, and title can be configured. It can input signals such as current, voltage, thermocouple, and RTD, which are then calculated, converted, and displayed locally in real-time as data, bar graphs, and curves. Historical data is periodically stored electronically in the machine's internal memory. Data can be transferred and backed up via USB and read via RS485 communication interface.

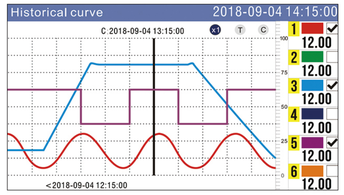


Technical Parameters

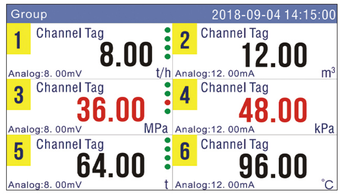
Term	68PR Paper recorder specifications
Display	4-inch color LCD screen, 800*480 resolution; dimensions: panel 160*160mm, aperture 152*157mm.
Installation method	Panel mounting, indoor use, panel IP40 protection rating
Measurement channels and accuracy	Measurement channels: 6 universal analog inputs (frequency signals require customization); Measurement accuracy: 0.2% F.S.
Sampling cycle	1 second
Temperature drift	⩽100PPM/°C
Power supply EFT	Non-isolated: 1000V; Isolated: 2000V
Signal EFT	Non-isolated: 500V; Isolated: 1000V
Electrostatic discharge (ESD)	Contact discharge: 4000V; Air discharge: 8000V
Surge indicators	AC: 2000V; DC: 1000V
Withstand voltage and insulation resistance	Insulation resistance between measurement input terminals: 400V; between protective ground and measurement terminals: 1000V; Insulation resistance: ⩾500MΩ
24VDC Distribution	2 channels 24VDC±10%, 30mA each
Alarm relay*	6 channels normally open relays, 250VAC 3A, 30VDC 3A (resistive load)
Transmitter output*	2-channel 4-20mA transmitter output, load ⩽750Ω, accuracy 0.2%
Power supply	AC 100-240VAC 50/60Hz, DC 24VDC±10%, maximum power 10W
Warm-up time	30 minutes after power is turned on
Environmental conditions	Operating conditions: Temperature: -10~60°C, Humidity: 0~85%RH; Usage conditions: Temperature: 0~50°C, Humidity: 10~85%
Recording interval	1 s, 2 s, 5 s, 10 s, 15 s, 30 s, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes, 1 hour
Recording function	Memory: 16MB, 900,000 records; Other records: 256 alarms, 256 power failures, 256 operation logs.
RS485	1 RS485 interface, standard Modbus RTU protocol
Print*	1 mini printer interface, 3.3V TTL level interface
USB	USB 2.0 supports high-capacity flash drives
Print Mode & Paper Size	Printing mode: Dot matrix ribbon printer; Recording paper: Width: 57mm roll paper; Outer diameter: 30mm
Print width	Effective width 48mm

Note: *Specifications are optional.

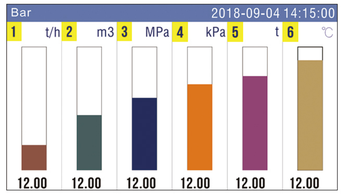
Display screen



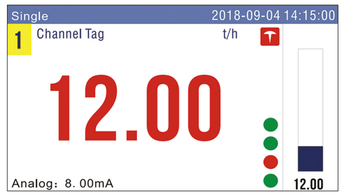
Real-time curve



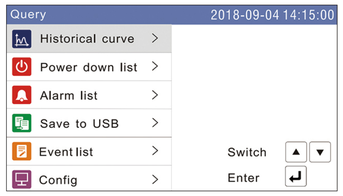
Digital display screen



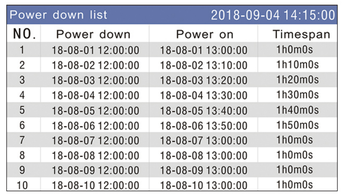
Bar graph screen



Patrol screen

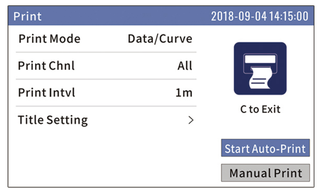


Function query



Power outage log

Printing mode and style



Automatic printing

Print Mode: Data or Curve selectable.

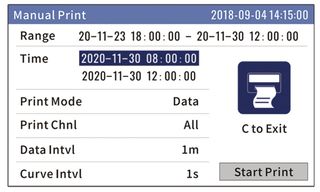
Print Channels: All channels or Channels 1-6.

Print Interval: Data print interval or curve print interval;

① Data print interval in minutes, ranging from 1 -120 minutes;

② Curve print interval in seconds, ranging from 1 -120 seconds.

Title Settings: Set print titles, up to 3 titles, 8 Chinese characters in



Manual printing

Range: Historical data range of the recorder.

Time: Select the print time range.

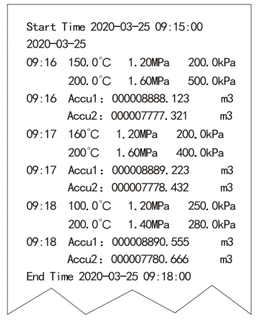
Print Mode: Data, Curve, or Data + Curve are selectable.

Print Channels: All channels or Channels 1-6.

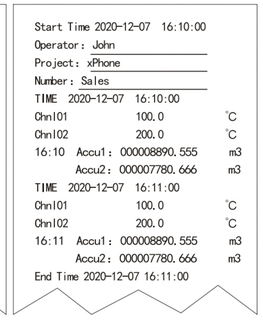
① Data Interval: Data print interval in minutes, range 1-120 minutes;

② Curve Interval: Curve print interval in seconds, range 1-120 seconds.

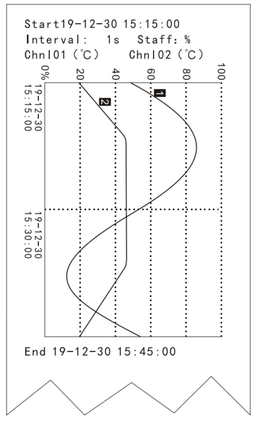
No tags and title



With tags and titles

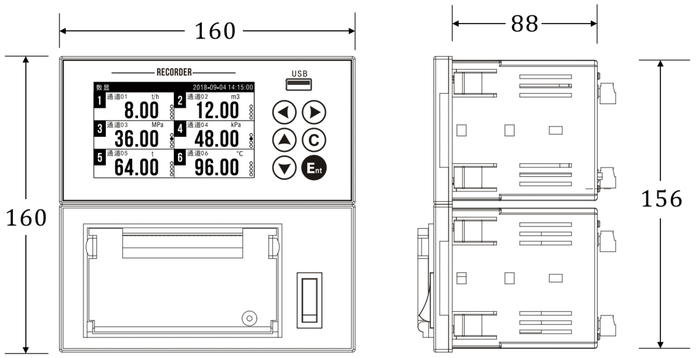


Curve Printing

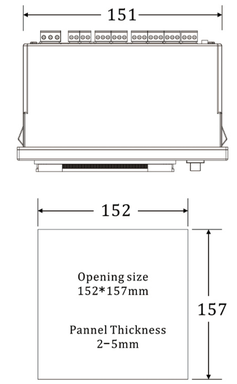


Multi Print Style Preview

Product size Unit：mm



Instrument dimensions



Hole size

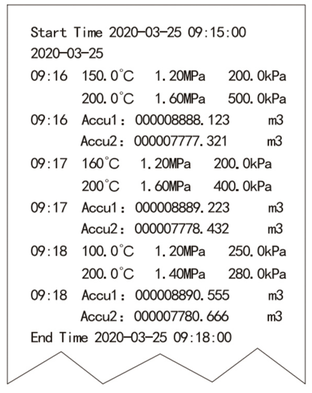
JJ-20EPR/10PFR PAPER RECORDER

This series of instruments features low daily maintenance workload, low operating costs, high reliability, and flexible application, making them suitable for modern automatic control. The paper recorder is a new type of intelligent recording instrument based on a 32-bit CPU, supplemented by large-scale integrated circuits and a graphic LCD display. It displays a large amount of information, is easy to operate, and has a user-friendly interface.

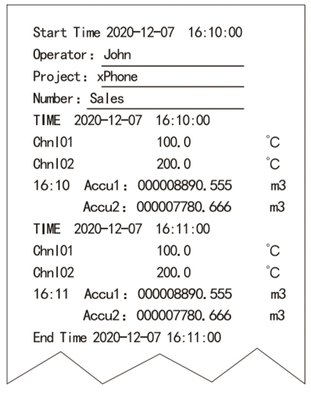


Printing style

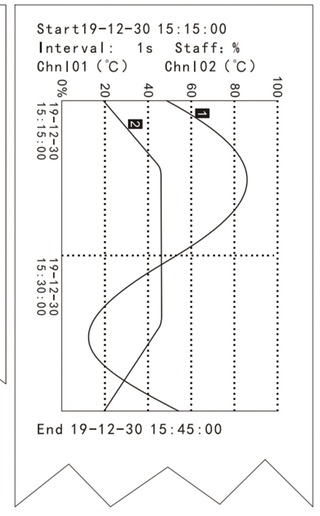
No tags and title



With tags and titles



Curve Printing

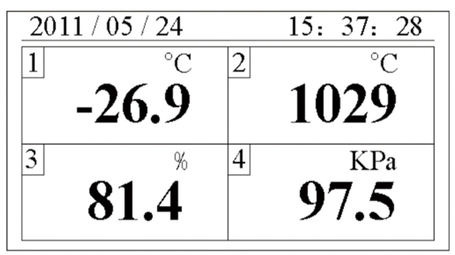


Multi Print Style Preview

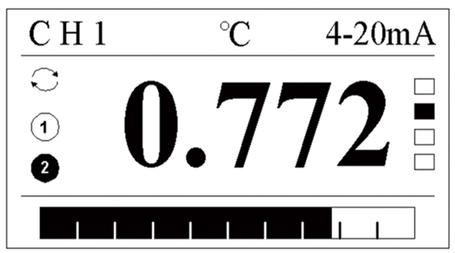
Technical Parameters

Term	20EPR/10PFR Paper recorder specifications
Screen	128*64 dot matrix blue screen LCD monitor.
Precision	Real-time display: ±0.2% F.S.; Recall accuracy: ±0.2% F.S.; (Note: Cold junction error should be removed for thermocouples;)
Processor	The high-performance ARM Cortex-M3 32-bit RISC core enables multi-channel signal acquisition, recording, display, and alarm functions.
Storage module	High-capacity parallel NAND flash memory chips are used to store historical data, while serial FRAM memory chips are used to store information.
Recording capacity	64/128/192/248MB（FLASH capacity is selectable）
Input specifications	1~4 Analog Signal Inputs
Input function	Voltage Input: 0-5V, 1-5V, 0-20mV, 0-100mV Current Input: 0-10mA, 4-20mA (0-20mA must be specified when ordering); Resistance Input: Res Frequency input: Frequency range: 0-5000Hz; Signal: 0-10mA, 0-12V, 0-24V, 4-20mA (customizable) Resistance temperature detector: PT100、Cu50、G53、Cu100、BA1、BA2（The three wires must have balanced resistance, and the lead resistance must be <10Ω.） Thermocouples: S, B, K, T, R, E, N, J; Radiation pyrometers: F1, F2; Tungsten-rhenium: WRe3-25, WRe5-26 Other input signals (such as digital inputs) or index numbers (such as PT1000) must be specified when ordering.
Power distribution output	Centralized power distribution +24VDC, standard power distribution ⩽30mA, supports 12VDC and 5VDC power distribution output.
Transmission output	Supports two channels of 4-20mA standard current transmitter output, facilitating data acquisition by display instruments or DCS/PLC.
Alarm output	2-channel relay contact output (supports up to 4 channels), configurable upper limit, upper limit, lower limit, and lower lower limit alarms.
Communication printing	Communication interface: RS232C or RS485, supporting Modbus RTU protocol. Printing interface ---- RS232C direct connection to mini printer
Recording interval	The time can be set from 1 s to 240 s, with 11 different settings: 1/2/4/8/12/24/36/60 120/180/240 s
Data backup	Supports USB 1.1 and 2.0 flash drives, and can transfer data between 1GB and 16GB flash drives, offering strong compatibility.
Cold junction compensation	Thermocouple cold junction compensation error: ±1℃
Power failure protection	Built-in FLASH memory protects parameters and historical data, ensuring permanent storage even after power failure; it also ensures accurate operation even after power loss.
Clock error	±1 minute/month
Power supply	Standard configuration includes 220VAC, 50Hz AC power supply; supports 24VDC/12VDC DC power supply (DC power supply must be specified).
Suitable environment	Ambient temperature: 0~50℃, avoid direct sunlight; Ambient humidity: 0~85% RH
Net weight	Net weight: ⩽1.0Kg

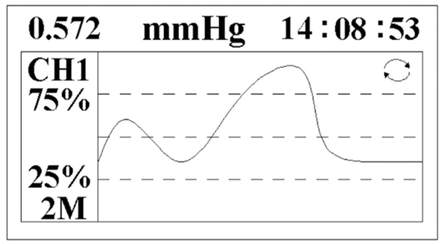
Display screen



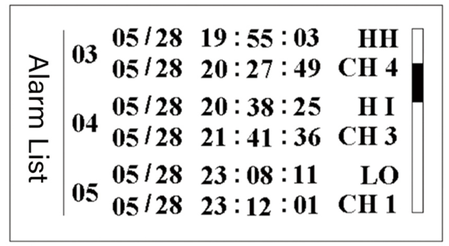
Overall view



Digital display screen

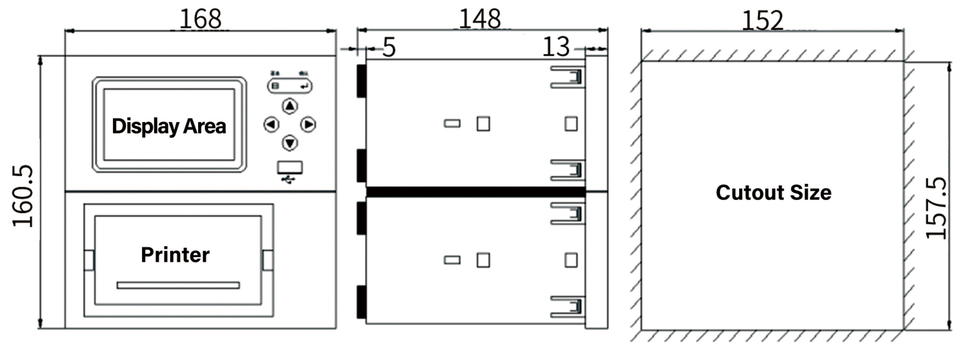


Real-time trend panel



Alarm List

Product size Unit: mm



Instrument Size

Cutout Size

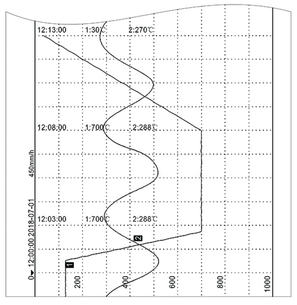
JJ-11R HYBRID PRINTING RECORDER

The hybrid print recorder is a multi-functional intelligent recorder professionally designed for industrial environments. It provides multiple high-precision analog signal input channels, can be configured with multiple alarms, and provides sensor power distribution; it uses a high-precision thermal printer to achieve data, curve, and hybrid printing; equipped with a high-brightness, high-definition LCD screen, the instrument integrates signal processing, display, printing, and alarm functions, making it an excellent tool for collecting, analyzing, and storing important industrial process data.

The product is mainly used in various industrial environments such as metallurgy, petroleum, chemical, building materials, papermaking, food, pharmaceuticals, heat treatment, and water treatment.

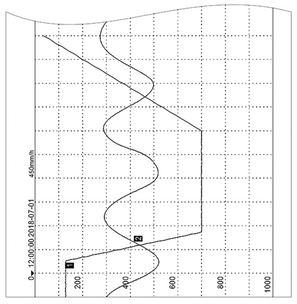


Printing style



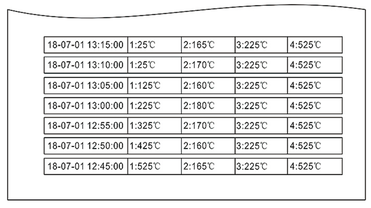
Hybrid mode

Simultaneously record the printing curve and data; the curve is printed according to the paper feed speed, and the data is printed according to the recording interval.



Curve mode

The curve is recorded and printed based on the paper feed speed.



18-07-01 13:15:00	1:25℃	2:165℃	3:225℃	4:525℃
18-07-01 13:10:00	1:25℃	2:170℃	3:225℃	4:525℃
18-07-01 13:05:00	1:125℃	2:160℃	3:225℃	4:525℃
18-07-01 13:00:00	1:225℃	2:180℃	3:225℃	4:525℃
18-07-01 12:55:00	1:325℃	2:170℃	3:225℃	4:525℃
18-07-01 12:50:00	1:425℃	2:160℃	3:225℃	4:525℃
18-07-01 12:45:00	1:525℃	2:165℃	3:225℃	4:525℃

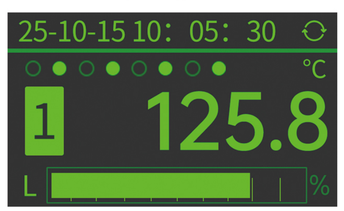
Data pattern

Data is recorded at intervals (minutes).

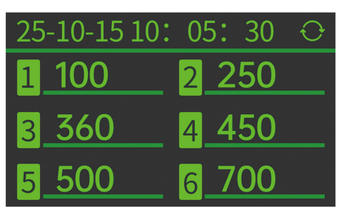
Technical Parameters

Term	11R Hybrid printer/recorder specifications
Input channel	12-channel universal signal input
Sampling period	1 second
Recording paper	Foldable industrial thermal paper, 120mm wide, 8 meters long
Paper feed speed	10~450mm/h
Power supply	100~240VAC 50~60Hz / 24VDC±10% 45W
Operating environment	-10~60℃ /0~85%RH(No condensation)
Warm-up time	30 minutes after power is connected
Installation	Indoor, tray installation, horizontal tilt <30 degrees
Mounting panel thickness	2~12mm
Instrument weight	Approximately 3kg
Instrument dimensions	144（W）x 144（H）x 233（D）
Storage environment	-20~80℃ /0~85%RH（No condensation）
Relays	Normally open, 250VAC 3A, 30VDC 3A (resistive load)
Power distribution output	24VDC±10% 60mA
Paper feed deviation	MAX 2mm

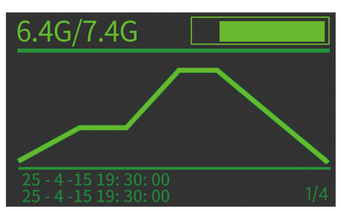
Display screen



Patrol screen



Digital display screen



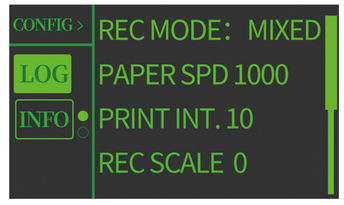
USB flash drive screen



System configuration

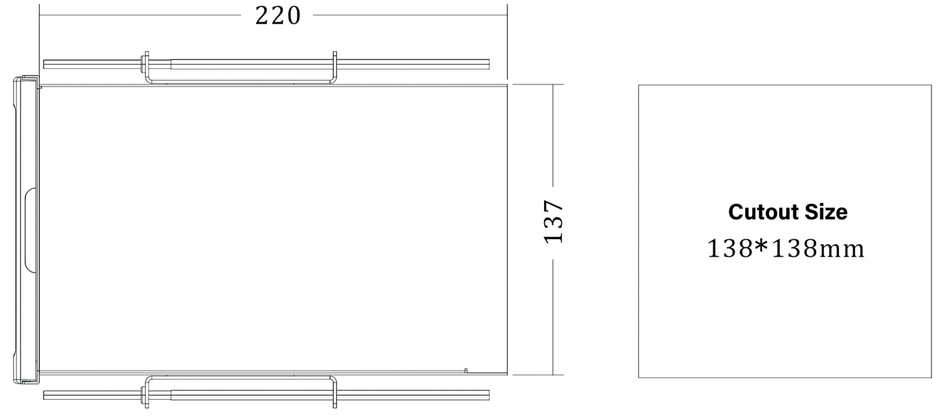


Input configuration



Record configuration

Product size Unit：mm



Instrument dimensions and openings





LEVEL AND WATER QUALITY INSTRUMENTS

Scope of application

Suitable for level measurement in acidic, alkaline, saline, corrosive, and high-temperature environments; for detecting water levels in lakes, reservoirs, and deep wells; and for measuring environmental water quality or liquids, including pH, conductivity, and dissolved oxygen levels.

JJ-LHMB-H8/9/91 ULTRASONIC LEVEL METER

This instrument features cutting-edge signal processing technology, offering advantages such as safety, cleanliness, high precision, long lifespan, stability, reliability, easy installation and maintenance, and simple readings. It is widely used in industries including petroleum, chemical, water treatment, water conservancy, steel, coal mining, power, and food processing, and is suitable for various applications involving acids, alkalis, salts, corrosion, high temperatures, and explosions. It can connect to various brands of PLC systems or secondary control systems via 4~20mA or RS485 (Modbus protocol) to provide real-time liquid level data for automated industrial operations.



H8 Ultrasonic level meter



H9 Ultrasonic level meter



H91 Ultrasonic level meter



Split-type ultrasonic level meter

Technical Parameters

Term	LHMB-H8/9/91 Ultrasonic liquid level meter parameters
Product model	H8、H9、H91、split-type ultrasonic level meter
Measuring range	H8：0~10m、H9：0~15m、H91：0~10m、split type：0~15m
Blind zone	0.5m
Distance measurement accuracy	±0.5%F.S
Distance measurement resolution	1mm
Instrument display	Built-in LCD display
Output signal	4~20mA (two-wire); 4~20mA / RS485 / Two-channel relay (four-wire)
Power supply voltage	DC24V (two-wire); DC24V / AC220V (four-wire)
Protection class	IP65
Ambient temperature	- 20°C ~ 60°C

Functional features

Stable and reliable: High-quality modules and key components are sourced; highly stable and reliable components can replace imported instruments.

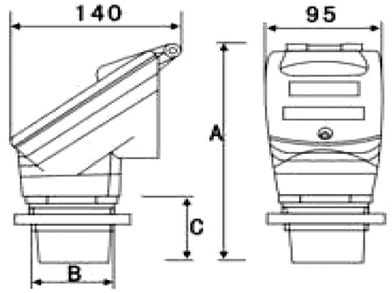
Software technology: The acoustic intelligent technology software can perform intelligent echo analysis without any debugging or other special steps;

High precision: Our company's intelligent acoustic technology greatly improves the precision of ultrasonic level gauges and provides strong on-site anti-interference capabilities.

Low failure rate, easy installation, and easy maintenance: This instrument is a non-contact instrument that does not come into direct contact with liquids, thus resulting in a low failure rate. The instrument offers multiple installation options.

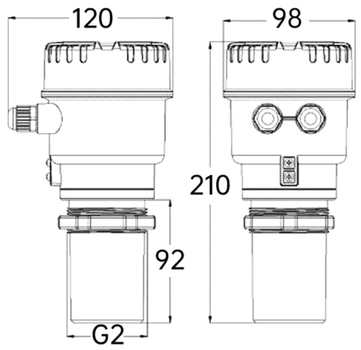
Multiple protections: The instrument has an IP65 protection rating; the circuit components have isolation protection functions to prevent short circuits, lightning strikes, and other damage to the entire instrument.

Product size Unit: mm

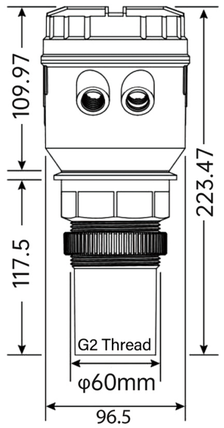


Size A	Size B	Size C
227mm	M65 × 2	68mm

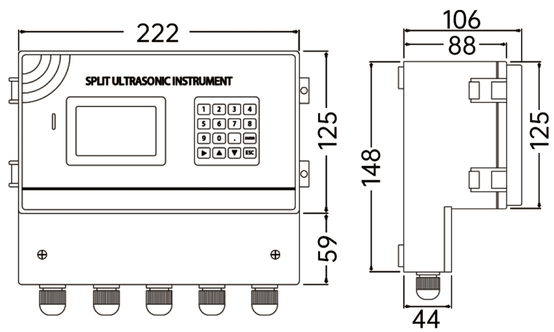
H8 Series Instrument Dimensions



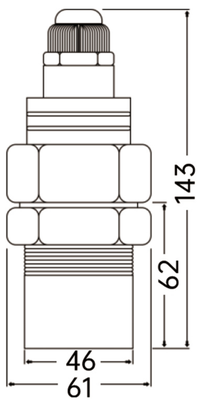
H9 Series instrument dimensions



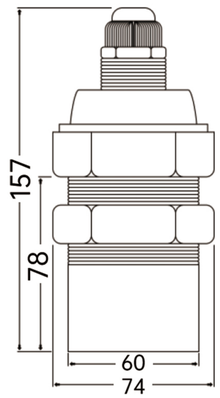
H91 Series instrument dimensions



Split-type liquid level metr main unit dimensions



Compact probe size



Enhanced probe size

JJ-3051LT SINGLE/DOUBLE FLANGE LEVEL GAUGE

This intelligent transmitter is a field measurement instrument with HART communication protocol, developed using fully isolated circuit technology. The intelligent transmitter employs fully isolated circuit design, isolating power supply and sensor signals, thus improving the overall stability and anti-interference capability. It also features parameter data backup and recovery functions. Transmitters with remote transmission flanges measure liquid levels; for general viscous media, a flat flange is used. For highly viscous media that are prone to sedimentation and suspension, an insertion flange should be used. During installation, the measuring diaphragm must be deeply inserted into the inner wall of the container, at least tangential to the inner wall.



Technical Parameters

Term	3051LT Single/double flange level gauge parameters
Application and measurement range	Applications: Liquids, gases, and vapors; Measurement range: -0.1~60MPa
Signal output	Two-wire 4~20mA; HART protocol
Power supply	24VDC
Display	Smart LCD 5.5-digit digital display + backlight
Zero and range shift	The lower limit of the measurement range shall not be lower than the lower limit of the maximum measurement range, and the upper limit shall not exceed the upper limit of the maximum measurement range.
Damping value	Electronic damping adjustable range: 0-32 seconds
Amplification factor	Adjustable within the range of 1-128 times as needed
Fault alarm	When a fault is detected by self-diagnosis, the analog output will be higher than 20.8mA or lower than 3.9mA.
Data recovery	Data loss can be recovered via a three-button control.
Temperature compensation	Computer-acquired temperature data is sent to the transmitter for temperature compensation.
Operating temperature	-40~85°C; with LCD display: -35~85°C.
Storage temperature	-45~90°C
Safety protection	AND circuit protection design, with strong resistance to electrostatic discharge, surge current, and overload protection.
Basic error	±0.075%、0.1%、0.2%
Repeatability error	0.1%、0.2%、0.3%
Hysteresis	0.1%、0.2%、0.3%
Interference immunity	When a 1~100kHz, peak 1~380VAC inverter interference signal is applied to the power supply and casing, the output change is <±0.2% (4~20mA).
Constant current performance	Change < 0.075%
Insulation performance	Power supply to ground resistance > 400MΩ
Response time	Response time during power-on startup < 2 seconds
Sensitivity	Lower limit and range change < 0.01%

Product model

Dual-flange level transmitter



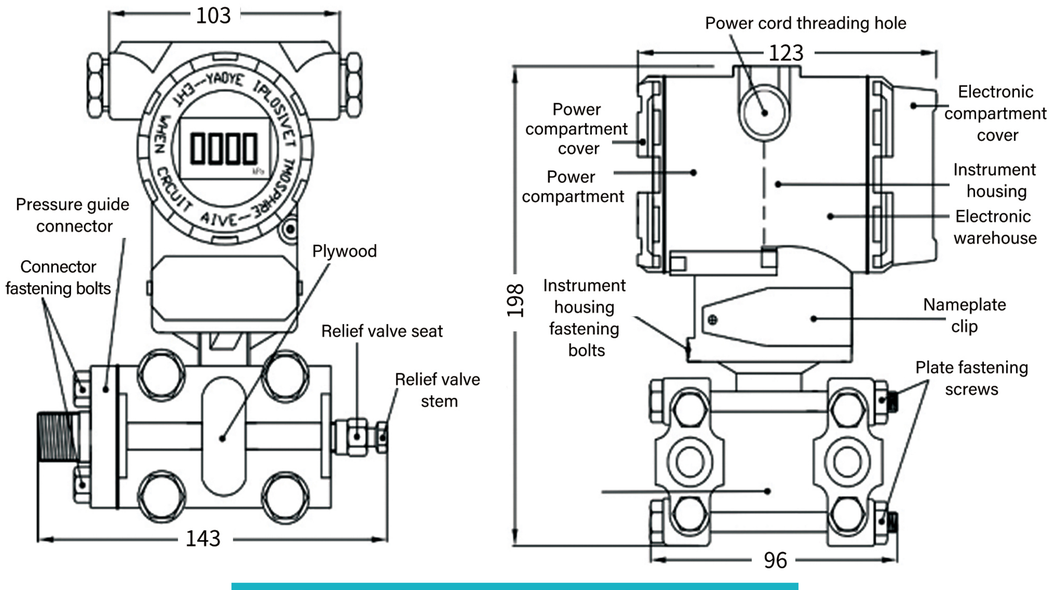
Structure	Double flange + double capillary tube
Measurement type	Differential pressure (automatically compensated vapor phase pressure)
Applicable containers	Pressurized/closed containers
Media characteristics	General liquids, high-temperature and high-pressure media
Installation requirements	Strict vertical alignment; vapor phase flange must be higher than liquid phase flange
Typical scenarios	Gas tanks, reaction vessels, steam boilers

Single flange level transmitter



Structure	Single flange + single capillary tube (or direct connection)
Measurement type	Gas gauge pressure (vapor phase pressure required)
Applicable containers	Open/atmospheric/low-pressure vessel
Media characteristics	Corrosive, viscous, easily crystallizing media
Installation requirements	Simple, no alignment requirements
Typical scenarios	Sewage treatment ponds, small storage tanks

Product size Unit：mm



Flange level gauge product dimension drawing

JJ-1160 SUBMERSIBLE LEVEL GAUGE

Submersible level transmitters (hydrostatic type, for general liquids) use high-performance diffused silicon piezoresistive pressure sensors as the measuring element. Through highly reliable amplification circuitry and precise temperature compensation, the gauge pressure or absolute pressure of the measured medium is converted into a standard voltage or current signal, which can be easily connected to computer interface cards, control instruments, smart instruments, or PLCs. The product is compact and easy to install; simply immerse it in water to measure the liquid level from the transmitter tip to the liquid surface. Applications include industrial level measurement and control, urban water supply and wastewater treatment, petrochemicals, hydrological monitoring, reservoirs, dams, and hydropower construction.



304 stainless steel submersible level gauge



PTFE Submersible level gauge

Technical Parameters

Term	Parameters of 1160 submersible level gauge	
Product name	304 Stainless steel submersible level gauge	PTFE Submersible level gauge
Measuring medium	Various water, oil, acids, alkalis, and high-temperature liquids	Sulfuric acid, hydrochloric acid and other highly corrosive liquids
Overall material	Diaphragm: 316L stainless steel; Housing: 304 stainless steel (contact)	Ceramic chip; PTFE casing (contact)
Measuring range	0~200m	
Product type	Straight lead type, explosion-proof meter with no display, explosion-proof meter with LCD display	
Maximum overload	Not exceeding pipe length	
Measuring form	Submersible measurement	
Accuracy class	0.5%	
Power supply voltage	24VDC	
Load resistance	<500Ω	
Thermal zero drift	<0.03% F.S/℃	
Output signal	4-20mA	
Ambient humidity	0-95%	
Medium temperature	0-100℃（Customized gas collection pressure tap）	
Operating temperature	-10-80℃	

Functional features

- Employing advanced circuit processing technology, it boasts stable performance and high sensitivity;
- Multiple measuring ranges, with a maximum measurement range of 200m (water column pressure);
- Utilizing a 316L stainless steel diaphragm, it is suitable for various measuring media;
- Flexible configuration options are available to meet different needs;
- Reverse polarity and overvoltage protection;
- Impact and lightning protection design;
- Laser-trimmed temperature compensation, zero point and measuring range can be adjusted on-site;
- Wide range and corrosion resistance, suitable for various media;
- Strong overload and anti-interference capabilities, stable performance;
- Integrated or split type available.

Level gauge model

Stainless steel straight lead type



Stainless steel 2088 explosion-proof display type



Stainless steel 2088 non-display type



PTFE straight lead type



PTFE 2088 display type



PTFE 2088 non-display type



Choose the appropriate connection method and material based on your site conditions and the measuring medium.

JJ-RD26/RD80 RADAR LEVEL GAUGE

The JJRD series radar level gauge is a radar product that utilizes the frequency modulated continuous wave (FMCW) principle. It can be widely used to measure the distance, height, volume, weight, and flow rate of liquids, slurries, and viscous substances in open channels. It can also be used to measure solid media such as powders, granules, and lumps. It can maintain stable measurement even in dusty or agitated applications. It supports two-wire and four-wire systems. The maximum measurement range is 120m, and the minimum blind zone is 0.08m. Due to its higher operating frequency and shorter wavelength, it is particularly suitable for solid applications. Its operation, which transmits and receives electromagnetic waves through a lens antenna, offers unique advantages in high-dust and harsh temperature environments (+200℃).



Technical Parameters

Term	RD26/RD80 radar level gauge parameters
Transmit frequency	76-81GHz, frequency modulation scanning bandwidth 5GHz
Measurement range	(0.08~120) m
Measurement accuracy	±1mm
Beam angle	3°（Flanges of DN50 and below）、8°（Flanges of DN80 and above）
Usage dielectric constant range	≥2
Power supply range	4-20mA two-wire or DC24V (less than 1W)
Communication method	HART or RS485 (MODBUS protocol)
Fault output	Selectable 3.6mA, 22mA, and hold states
Field operation/programming	128×64 dot matrix LCD with four buttons, configurable with host computer software.
Housing material	Aluminum alloy or stainless steel options available
Antenna type	Lens antenna, can be equipped with corrosion-resistant antennas/heat sink antennas, etc.
Process pressure	(-0.1~4) MPa
Electrical interface	M20*1.5、1/2NPT（Customization required）

Functional features

- Employing a transmission frequency of up to 76-81 GHz, it achieves a more compact RF architecture and higher signal-to-noise ratio;
- A5 GHz operating bandwidth enables higher measurement resolution and accuracy, suitable for metrology applications;
- A narrowest 3° antenna beam angle concentrates energy, providing stronger anti-interference capabilities and higher reliability;
- A smaller measurement blind zone allows for better performance even with small containers;
- Shorter wavelength provides better reflection characteristics for small particles and tilted media surfaces;
- Highly sensitive measurement, fast refresh rate, small antenna size, easy installation, robust and durable, maintenance-free, and cost-effective;
- Non-contact measurement, no wear, no pollution, suitable for measuring both liquid and solid media;
- Utilizing advanced microprocessors and unique echo processing technology, it is applicable to various complex working conditions;
- Very unaffected by complex conditions such as temperature, pressure, water vapor, and dust;
- Extremely low transmission power allows for installation inside various metal and non-metal containers, posing no harm to humans or the environment;

Level gauge model

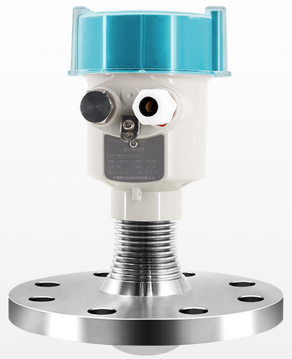
Standard flange connection



Standard threaded connection



Flange connection high temperature type



Vientiane blowing style



JJ-PHG8206 ONLINE PH METER

The industrial pH meter is an intelligent upgrade of the industrial acidity meter, capable of continuously measuring and controlling the pH value of wastewater. This device is suitable for urban wastewater treatment plants, chemical plants, printing and dyeing plants, paper mills, pharmaceutical plants, electroplating plants, and environmental protection industries. Based on the environment and characteristics of the water industry and in accordance with international power supply standards, it incorporates electrical design specifications for special environments, adding 220VAC and safe low-voltage 24VAC/24VDC power supply options.



Technical Parameters

Term	PHG8206 Online pH meter parameters
Product name	Online pH/ORP Meter
Measuring range	pH: 0-14.00 ORP: -2000 +2000mV Temperature: 0-150°C (depending on electrode)
Measuring accuracy	pH: ±0.05pH, ORP: ±5mV; Temperature: ±0.3°C
Temperature compensation	Automatic or Manual
Resolution	pH: 0.01pH, ORP: 1mV; Temperature: 0.1°C
Stability	pH: ≤0.02pH/24h； ORP: ≤2mV/24h
Relay	Two groups: 5A 240VAC/5A 28VDC or 120VAC
Power supply	85~265VAC or 9~36VDC, power: ≤3W
Current output	Standard configuration: 1 channel 4-20mA, 2 channels optional
Communication output	Standard configuration: RS485 Modbus RTU
Dimensions	98*98*130mm
Opening size	93*93mm
Protection class	IP65
Mounting method	Panel mounting/cabinet mounting/embedded or wall-mounted
Instrument weight	0.6kg
Ambient temperature	-10~60°C; Relative humidity: ≤90%; No strong magnetic field interference in the surrounding area except for the Earth's magnetic field.

Functional features

Dot-matrix LCD screen display	Manual and automatic temperature compensation
Intelligent menu operation	Two sets of relay control switches
Multiple automatic calibration functions	High limit, low limit, and hysteresis control
Multiple signal output methods	Same interface display for pH/ORP, temperature, status, etc.

Multiple electrode options

Composite wastewater electrode



Flow range: 2~12pH
Temperature range: 0~80°C
Pressure resistance range: 0~0.3MPa
Connection thread: NPT3/4
Connection method: Standard 10m cable, customizable
Installation method: Submersible, in-line, flow-through
Application scope: Conventional water bodies: domestic sewage, wastewater treatment, tap water, etc.

Corrosion-resistant PTFE electrode



Flow range: 2~14pH
Temperature range: 0~60℃
Pressure resistance range: 0~0.3MPa
Connection thread: NPT3/4
Connection method: Standard 10m cable, customizable
Installation method: Submersible, in-line, flow-through
Applications: Strong acids and alkalis, acid and alkali waste liquids, sewage, etc.

High-temperature glass electrode



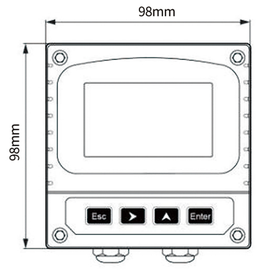
Flow range: 2~14pH
Temperature range: 0~100℃
Pressure resistance range: 0~0.6MPa
Connection thread: PG13.5
Connection method: Standard 10m cable, customizable
Installation method: Submersible, pipeline, flow-through
Applications: High-temperature cooling water, papermaking waste liquid, high-temperature reactors

Custom high-temperature glass electrodes

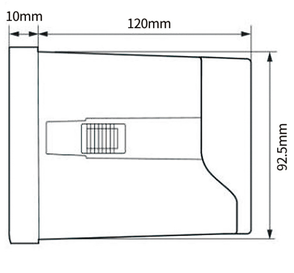


Flow range: 2~14pH
Temperature range: 0~130℃
Pressure resistance range: 0~0.25MPa
Connection thread: PG13.5
Connection method: Standard 10m cable, customizable
Installation method: Submersible, in-line, flow-through
Applications: Pharmaceutical wastewater, high-temperature solutions, harsh working conditions

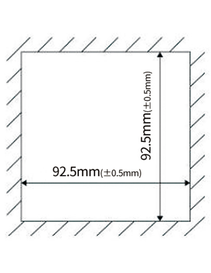
Product size Unit: mm



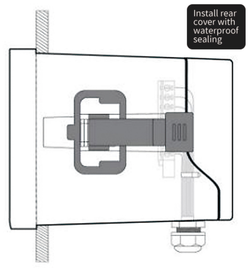
Instrument dimensions



Instrument dimensions (side view)



Embedded mounting hole size



Simply insert the instrument into the square hole and secure it with the matching bayonet.

JJ-DDG8202 ONLINE CONDUCTIVITY METER

The industrial online conductivity meter is a microprocessor-based online w a ter quality monitoring instrument. This instrument is equipped with conductivity electrodes of different types and constants for continuous monitoring and control of the conductivity and temp e rature values of aqueous solutions. It is used for monitori n g and controlli n g the quality of raw water and product water from water treatment equipment such as power plant cooling water, m a keup water, sat u rated water, condensate, boiler water, and seawater distillation. It features current or voltage output, freely adjustable measurement range, high/low limit alarm prompts, two sets of r elay control sw i tches, adjustable hysteresis range, and automatic or manual temperature compensation.



Technical Parameters

Term	DDG8202 Online conductivity meter parameters
Product name	Online conductivity meter/resistivity meter/TDS meter/salinity meter (for use with different electrodes, please specify when ordering).
Measurement range	Electrical conductivity: 0~500 mS/cm; TDS: 0~250 g/L; Salinity: 0~700 PPT; Resistivity: 0~18.25 MΩ/cm Temperature: 0~80℃ (depending on electrodes)
Measurement accuracy	Conductivity/TDS/Salinity/Resistivity: ±1% F.S; Temperature: ±0.3℃
Temperature compensation	Automatic or manual
Resolution	Conductivity: 0.01 μS/cm; 0.01 ms/cm; TDS: 0.01 mg/L; Salinity: 0.01 ppt; Resistivity: 0.01 KΩ/cm; 0.01 MΩ/cm; Temperature: ±0.1℃
Stability	Conductivity/TDS/Salinity/Resistivity: ⩽0.2% F.S/24h
Relay	Two sets of 5A 240VAC/5A 28VDC or 120VAC
Power supply	85~265VAC or 9~36VDC, power: ⩽3W
Current output	Standard configuration includes 1 4-20mA channel; 2 channels are optional.
Communication output	Standard configuration includes RS485 Modbus RTU.
Dimensions	98*98*130mm
Opening size	93*93mm
Protection rating	IP65
Mounting method	Panel mounting/cabinet mounting/embedded or wall-mounted
Instrument weight	0.6kg
Ambient temperature	-10~60℃; Relative humidity: ⩽90%; No strong magnetic field interference in the surrounding area except for the Earth's magnetic field.

Functional features

Dot-matrix LCD screen display	Manual and automatic temperature compensation
Intelligent menu operation	Two sets of relay-controlled switches
Multiple automatic calibration functions	High limit, low limit, and hysteresis control
Multiple signal output methods	Same interface displays conductivity/TDS/salinity/resistivity, temperature, status, etc.

Multiple electrode options

Conductivity secondary cell electrode K=0.01



Measurement range: 0-20μs/cm	Connection thread: NPT3/4
Temperature measurement: 0~60℃	Cable length: Standard 10 meters, customizable
Pressure resistance range: 0~0.6MPa	Installation method: Pipeline, flow-through, submersible
Applicable medium: Pure water	Wetted material: Stainless steel

Conductivity secondary cell electrode K=0.1



Measurement range: 0-200μs/cm	Connection thread: NPT3/4
Temperature measurement: 0~60℃	Cable length: Standard 10 meters, customizable
Pressure resistance range: 0~0.6MPa	Installation method: Pipeline, flow-through, submersible
Applicable medium: Conventional water treatment	Wetted material: Stainless steel

Conductivity secondary cell electrode K=1.0



Measurement range: 0-5000μs/cm	Connection thread: NPT3/4
Temperature measurement: 0~60℃	Cable length: Standard 10 meters, customizable
Pressure resistance range: 0~0.6MPa	Installation method: Pipeline, flow-through, submersible
Applicable medium: Industrial water/circulating water	Wetted material: Stainless steel

Conductivity secondary cell electrode K=1.0



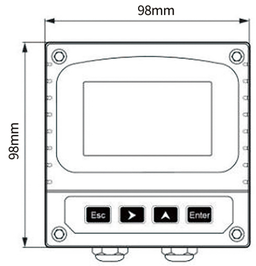
Measuring range: 1μs/cm~30000μs/cm	
Electrode coefficient: 1.0	Cable length: 10 meters standard, customizable
Temperature measurement: 0~50℃	Installation methods: conduit, flow-through, submersible
Pressure range: 0~0.6MPa	Wetted material: graphene
Connection thread: NPT3/4	Shell material: PP
Applicable media: pure water, wastewater, aquaculture water, etc.	

Conductivity four-level electrode K = 0.5

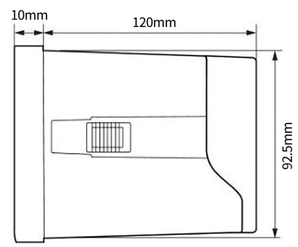


Measuring range: 10μs/cm~500000μs/cm	
Electrode coefficient: 0.5	Cable length: 10 meters standard, customizable
Temperature measurement: 0~50℃	Installation methods: conduit, flow-through, submersible
Pressure range: 0~0.6MPa	Wetted material: graphene
Connection thread: NPT3/4	Shell material: PP
Applicable media: Conventional water treatment, seawater, acid and alkali conductivity monitoring	

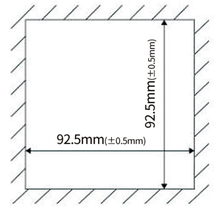
Product size Unit: mm



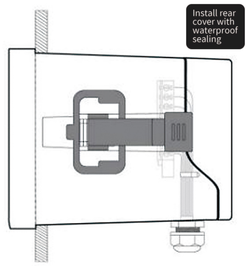
Instrument dimensions



Instrument dimensions (side view)



Embedded mounting hole size



Simply insert the instrument into the square hole and secure it with the matching bayonet.

JJ-DOG8008F ONLINE DISSOLVED OXYGEN METER

The industrial dissolved oxygen meter (hereinafter referred to as the instrument) is a microprocessor-based online water quality monitoring instrument. It is widely used in industrial water, domestic water, and sewage treatment, as well as in aquaculture. It continuously monitors and controls the oxygen content in aqueous solutions. The instrument features an LCD display screen; intelligent Chinese menu operation; current or voltage output; freely adjustable measurement range; high/low limit alarm prompts; two sets of relay control switches; adjustable hysteresis range; automatic or manual temperature compensation; and automatic electrode calibration.



Technical Parameters

Term	DOG8008F Online dissolved oxygen analyzer parameters
Product name	Online Dissolved Oxygen Analyzer
Measuring range	Dissolved Oxygen: 0-20.0 mg/L; Temperature: 0-50℃ (depending on electrodes)
Measuring accuracy	Dissolved Oxygen: ±1% F.S; Temperature: ±0.3℃
Temp. compensation	Automatic or Manual
Resolution	Dissolved Oxygen: 0.01 mg/L; Temperature: 0.1℃
Stability	Drift 2% F.S per week under constant temperature and pressure
Relay	Two groups of 5A 240VAC/5A 28VDC or 120VAC
Power supply	85～265VAC or 9～36VDC, Power: ≤3W
Current output	Standard configuration: 1 channel 4-20mA, optional 2 channels
Communication output	Standard configuration: RS485 Modbus RTU
Overall & Opening Dim	Dimensions: 98*98*130mm; Opening size: 93*93mm
Protection rating	IP65
Mounting & Weight	Mount：Panel/Cabinet/Embedded/Wall-mount，0.6kg
Ambient temperature	Temp: -10～60℃; RH: ≤90%; No strong magnetic interference except geomagnetic field.

Functional features

Dot-matrix LCD screen display	Manual and automatic temperature compensation
Intelligent menu operation	Two sets of relay control switches
Multiple automatic calibration functions	High limit, low limit, and hysteresis control
Multiple signal output methods	DO, temp and status displayed on one interface.

Multiple electrode options

Membrane electrode



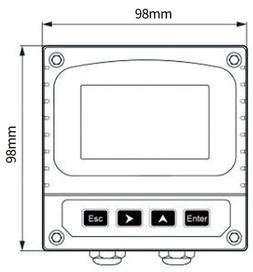
Measurement range: 0-20 mg/L	Temp Comp: NTC auto compensation
Measurement principle: Polarography	Mounting thread: NPT3/4
Measurement accuracy: ±1% F.S.	Cable len: Std 10m, customizable
Temperature measurement: 0~50°C	Waterproof rating: IP68
Pressure range: 0~0.3 MPa	Installation method: Submersible
Calib: Anoxic-water / Air calibration	Meas medium: Reservoirs, rivers, tap water, etc.

Fluorescent electrode

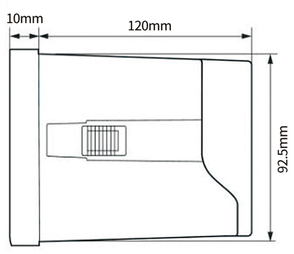


Measurement range: 0-20 mg/L	Temperature compensation: Automatic temperature compensation
Measurement principle: Fluorescence method	Mounting thread: G3/4"
Measurement accuracy: ±1% F.S.	Cable length: Standard 10 meters, customizable
Temperature measurement: 0~50°C	Waterproof rating: IP68
Pressure range: 0~0.3 MPa	Installation method: Submersible
Calibration: Anoxic water calibration / Air calibration	Measuring medium: Applicable to aeration/ anaerobic/industrial wastewater, etc.

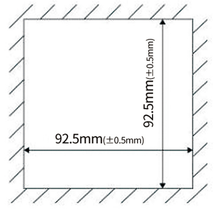
Product size Unit: mm



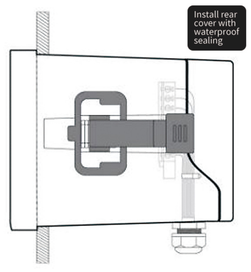
Instrument dimensions



Instrument dimensions (side view)



Embedded mounting hole size



Simply insert the instrument into the square hole and secure it with the matching bayonet.

JJ-NT8000G ONLINE TURBIDITY METER

An online turbidity meter is a precision instrument that can automatically, continuously, and in real-time measure the turbidity of water. Based on the interaction between light and suspended particles in water, it calculates turbidity values by detecting changes in the light signal, providing continuous data recording and capturing dynamic changes in turbidity. Applications include municipal sewage, reclaimed water, and industrial wastewater treatment. Features include current or voltage output, high/low limit alarms, three sets of relay control switches, and automatic or manual temperature compensation.



Technical Parameters

Term	NT8000G Online turbidity meter specifications
Product name	Online Turbidity Meter
Measurement range	Submersible: 0-400-2000-4000 NTU
	Temperature: 0-50°C (depending on electrodes)
Measurement accuracy	Turbidity: ±1% F.S
	Temperature: ±0.3°C
Temp. Compensation	Automatic or Manual
Resolution	Turbidity: 0.001 NTU; Temperature: 0.1°C
Relay	Three groups of 5A 240VAC/5A 28VDC or 120VAC
Power supply	85~265VAC or 9~36VDC, Power: ⩽3W
Current output	Standard configuration: 2 channels 4-20mA
Communication output	Standard configuration: RS485 Modbus RTU
Dimensions	144*144*118mm
Opening size	138*138mm
Protection class	IP65
Mounting method	Panel mounting/cabinet mounting/embedded or wall-mounted
Instrument weight	0.8kg
Ambient temperature	-10～60℃; RH: ⩽90%; No strong magnetic interference except geomagnetic field.

Functional features

Dot-matrix LCD screen display	Manual and automatic temperature compensation
Intelligent menu operation	Three sets of relay control switches
Multiple automatic calibration functions	High limit, low limit, and hysteresis control
Multiple signal output methods	Same interface display of turbidity, temperature, status, etc.

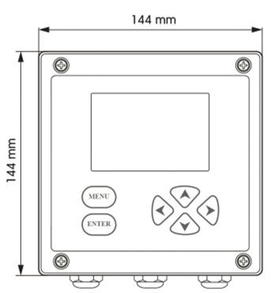
Electrode introduction

TSS802N Turbidity sensor

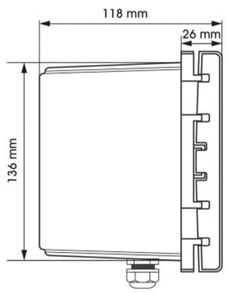


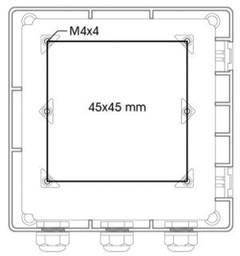
Measurement range: 1-4000 NTU	Calibration: Standard solution calibration, water sample calibration
Measurement accuracy: less than ±5% of the measured value	Installation thread: Top G3/4"
Temperature measurement: 0~50℃	Cable length: Standard 10 meters, customizable
Pressure range: 0~0.3MPa	Waterproof rating: IP68
Temperature compensation: Automatic temperature compensation	Installation method: Submersible
Lower measurement limit: 20 NTU (lower range, sampleable flow cup)	

Product size Unit: mm

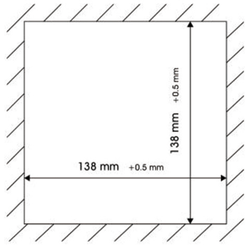


Controller dimensions





Back mounting hole size



Embedded mounting hole size







TEMPERATURE AND PRESSURE INSTRUMENT

Scope of application

Used for measuring the temperature and pressure of various media such as gases, liquids, steam, and oils; outputting signals such as current and voltage; compatible with various sensors and secondary instruments.

JJ-WRN THERMOCOUPLE

The WRN series assembled thermocouples are temperature sensors typically used in conjunction with temperature transmitters, controllers, and display instruments to form process control systems. They can directly measure the temperature of liquids, steam, gases, and solid surfaces in various production processes.
Suitable for on-site temperature measurement and process control in industries such as petroleum, chemical, synthetic fiber, textile, rubber, building materials, power, metallurgy, pharmaceuticals, and food; suitable for computer-controlled measurement and control systems and can also be used with other instruments.

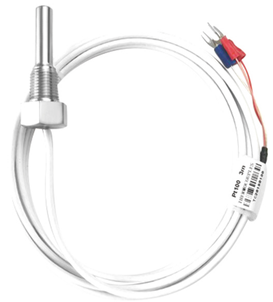


Technical Parameters

Term	WRN thermocouple parameters
Output signal	4-20mA & RS485 & 0-5V/0-10V
Accuracy class	⩽0.5%.F.S
Power consumption	⩽0.5VA
Insulation resistance	⩾20MΩ(DC500V)
Response time	⩽350mS
Operating environment	-10℃~50℃, 20%~90% non-condensing
Storage environment	-40℃~70℃，20%~95%
Operating voltage	12~30VDC
Standard accuracy	±0.2%
Temperature drift	Basic error 10℃,
	RT lead compensation: ±0.1% (0~10Ω)
	Load variation effect: ±0.1% (within allowable load range)
Power Supply Variation Effects	±0.1% (12~30V) power-on response time: <1S (0~90%)
Ambient temperature	-20~+70℃
Protection level	IP00/IP54（Sensor protection level determines）
Temperature range	Pt100：-200~850℃；Cu50：-50~150℃；
	Minimum temperature range：50℃
Lead resistance	⩽10Ω

JJ-WZP THERMAL RESISTANCE

WZP series assembled resistance temperature detectors (RTDs) are typically used in conjunction with display instruments, recording instruments, and electronic computing devices. They directly measure the temperature of liquids, vapors, gases, and solid surfaces within the range of -200°C to 500°C in various production processes. Features of assembled RTDs include: good vibration resistance, high temperature measurement accuracy, high mechanical strength, good pressure resistance, imported thin-film resistance elements, and reliable and stable performance.





Working principle

It measures temperature by utilizing the characteristic that the resistance of a material changes with temperature. When the resistance changes, the instrument displays the temperature value corresponding to that resistance value.

Technical Parameters

Name	Model	Division number	Tolerance level	Measurement range °C	Allowable deviation
Platinum resistance thermometer	WZP	Pt100	A	-200 ~ +420	±（0.15+0.002 t）
			B		±（0.30+0.005 t）
Copper resistance thermometer	WZC	Cu50		-50 ~ +150	±（0.30+0.006 t）
Platinum resistance thermometer	Protective tube diameter (mm)		Protective pipe material		Thermal response time t0.5 s
	φ12		/		30~90
	φ12		1Cr18Ni9Ti		30~90
	Conical protective tube		/		90~180
	Copper resistance thermometer 12		1Cr18Ni9Ti		<180

* Temperature measurement range and accuracy



JJ-PB1105/2088
PRESSURE TRANSMITTER

The pressure transmitter's pressure-sensitive core utilizes a high-performance diffused silicon piezoresistive pressure-filled core. Its internal dedicated integrated circuit converts the sensor's millivolt signal into standard voltage, current, or frequency signals, allowing for easy connection to computer interface cards, control instruments, smart meters, or PLCs. Long-distance transmission can be achieved via current output.
This product is easy and simple to install, possesses extremely high vibration and shock resistance, and is widely used in process control, aerospace, automotive, medical equipment, HVAC, and other fields.



Sanitary flat membrane type



Direct lead type



Aviation plug type



Hessmann type



2088 Explosion-proof display type

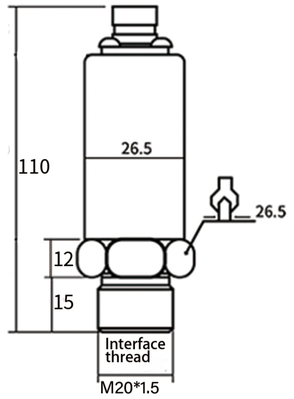
Technical Parameters

Term	PB1105/2088 pressure transmitter parameters				
Product model	2088 Explosion-proof display type	Hygienic type (flush film)	Hessmann type	Aviation plug type	Direct lead type
Power supply	24VDC				
Output signal	4~20mA / 0~5V / 0~10V / RS485				
Accuracy class	0.25% / 0.5%				
Measuring range	-0.1~100MPa / 100~200MPa / 200~400MPa / 400~600MPa				
Operating temperature	-10℃~70℃				
Zero drift	⩽0.03%FS/℃				
Thermal sensitivity drift	⩽0.03%FS/℃				
Insulation resistance	⩾20MΩ/250V				
Explosion-proof rating	Exd IIC T6 Gb	/			
Display type	On-site display	/			
Protection rating	IP65	IP65			IP67

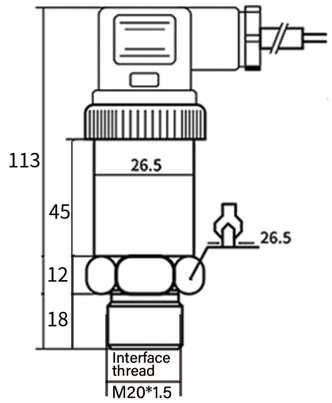
Functional features

Features reverse polarity and current limiting protection	Vibration-resistant, shock-resistant, and resistant to radio frequency electromagnetic interference.
316L stainless steel diaphragm structure	Wide-range corrosion resistant, suitable for various media.
Laser trimming temperature compensation, zero-position adjustable	Hygienic and scale-resistant; supports voltage/current/ frequency signal output.

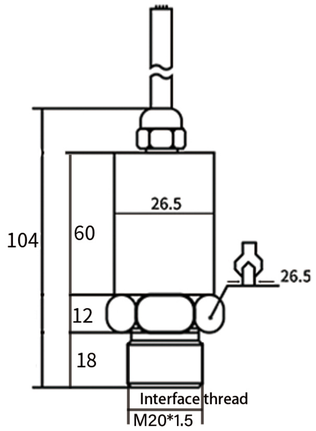
Product size Unit: mm



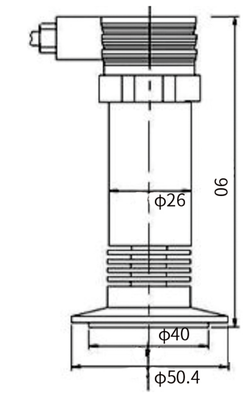
Aviation plug type size



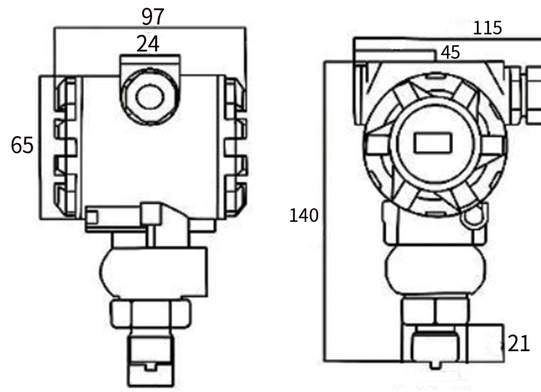
Hessmann type size



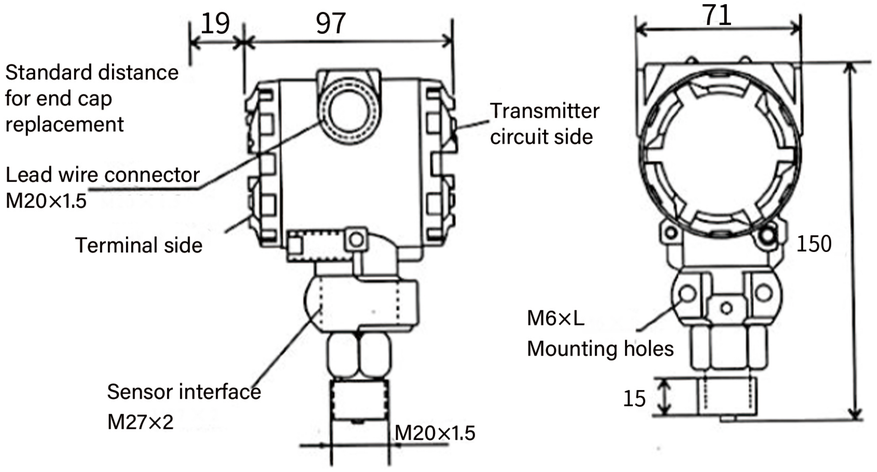
Direct lead type size



Flat film sanitary type size



On-site display size



Size without display

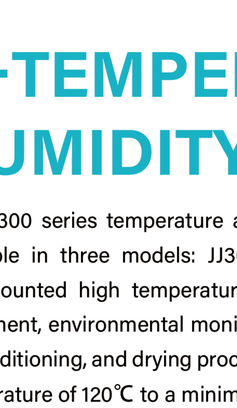
JJ-TEMPERATURE AND HUMIDITY TRANSMITTER

The JJ300 series temperature and humidity transmitters are compact in size and easy to install. They are available in three models: JJ300 wall-mounted ambient temperature type, JJ310 in-line type, and JJ320 wall-mounted high temperature type. They are suitable for applications in environmental humidification equipment, environmental monitoring, dehumidification projects, biopharmaceuticals, heating, ventilation and air conditioning, and drying processes. The sensor probe can operate in environments ranging from a maximum temperature of 120℃ to a minimum of -40℃.

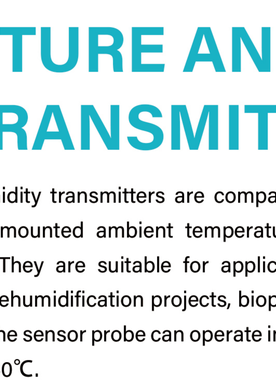
The transmitters are available in integrated and split types. Split-type sensor probes are typically available in lengths of 10cm, 20cm, and 50cm; other lengths can be customized. The standard sensor lead is 2 meters, with a maximum length of 10 meters. Sensor probe mounting options include: wall-mounted clamp bracket, movable gland flange, movable sealing sleeve (1/2G thread with adhesive filling), movable sealing sleeve (M20 thread with adhesive filling), DN15 threaded flange (with 1/2G sleeve with adhesive filling), and integrated sealed probe (M20 thread with adhesive filling). The transmitter main unit can be equipped with a display unit (button input) and two optional alarm relay outputs, which activate the relays based on the set upper and lower limits of temperature and humidity.

The transmitter's analog output signals are selectable: 4-20mA, 0-1V, 0-5V, and 0-10V.

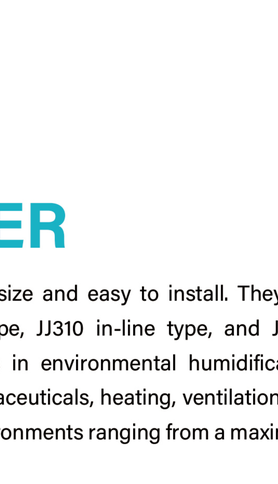
The transmitter can be equipped with an RS485 communication interface, using the standard MODBUS RTU protocol.



Integrated display type temperature and humidity transmitter



Pipeline temperature and humidity transmitter



External movable threaded probe, high temperature type

Functional features

Swiss Safran SHT41 sensor	Reverse polarity protection 12-24VDC power supply
Stainless steel split probe with multiple mounting options	High/low limit alarm relay output
High-precision analog transmitter output	IP65 protection rating
Adjustable temperature transmitter range via DIP switches	2000V power supply burst protection
RS485 interface, ModBus RTU protocol	500V surge protection

Technical Parameters

Term	Temperature and humidity transmitter parameters
Temp. Range	Integrated: -40~60°C Separate: -40~80°C / -40~120°C （high temperature）
Temp. Accuracy	±0.3°C（0~80°C） ±0.4°C（-20~0°C / 80~100°C） ±0.5°C（-40~-20°C / 100~120°C）
Humidity range	0-100%RH
Humidity accuracy	±3%（10~90%） ±4%（0~10% / 90~100%）
Transmitter output	Three-wire system, current rating 4-20mA, accuracy 1‰; load capacity 500Ω (24VDC), load capacity 200Ω (12VDC); voltage rating 1V/5V/10V, accuracy 1‰
Seal Pressure	1MPa
Relay	Normally open relay, 250VAC 3A, 30VDC 3A (resistive load)
Communication	RS485 interface, standard MODBUS RTU protocol
Power supply	12-24VDC±10%, Power Consumption 4W
Dimensions	Main Unit 120×104×36mm
Response time	T63 8 seconds
Emc	Power Supply Group Pulse 2000V Class B
Esd	Contact Discharge 4000V, Gap Discharge 8000V
Surge	500V
Protection	IP65 rating
Environment	Main unit operating temperature -40～60°C (with display -20～60°C)

Model Introduction

Integrated display type temperature and humidity transmitter



Pipeline temperature and humidity transmitter



External clamping probe type



External fixed threaded probe type



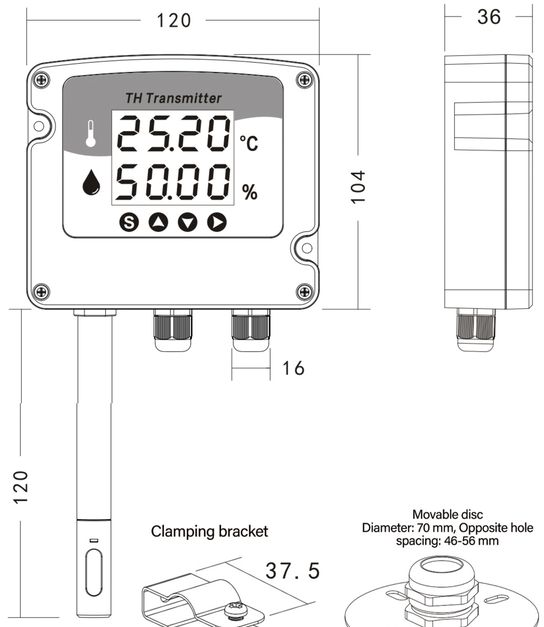
External movable threaded probe type

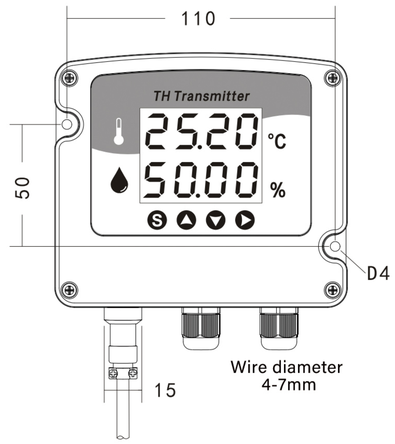


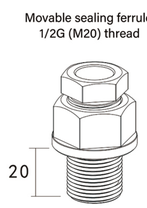
External movable threaded probe, high temperature type

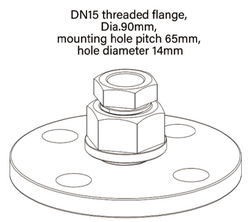


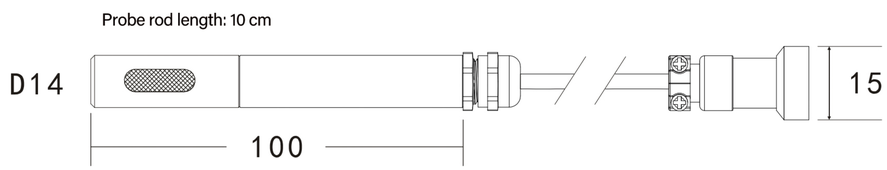
Product size Unit: mm

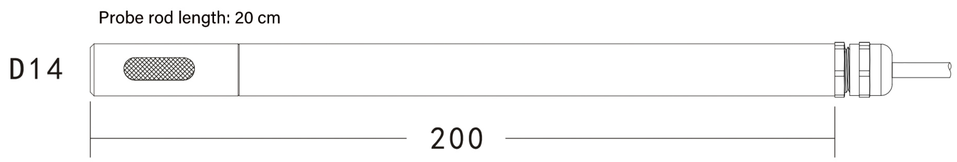


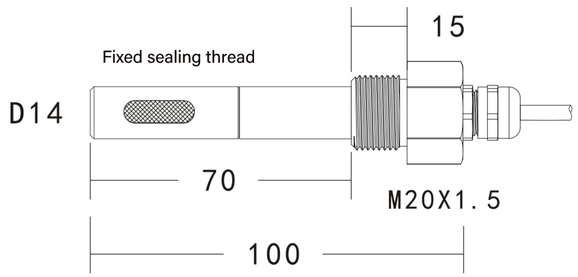












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10+of independent R&D and manufacturing experience

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