

Turbine Flowmeter

Model: ZJX-PA-F-A2



PRODUCT FEATURES AND APPLICATION FIELDS

Description:

The ZJX-PA-F-A2 turbine flowmeter uses rotating blades to cut magnetic lines of force, periodically changing the magnetic flux of the coil. Electric pulse signals are sensed at both ends of the coil, which are amplified and processed by the circuit to form pulse waves. Finally, through intelligent circuit processing, they are converted into instantaneous flow and cumulative flow. At the same time, the medium density is input to perform mass flow measurement

Advantages:

Good repeatability, accuracy up to 0.2%, effective filtering of clutter, three circuit impact protection mode

Wide measurement range, with a range ratio of 1:20

Integrated turbine, no welding required, no false signals present

Spectrum signal processing, anti strong interference

High and low temperature experiments, temperature resistance testing, to ensure product reliability

The impeller is made of non magnetic stainless steel, finely milled and formed, with signal coefficient calibration, friction coefficient adjustment, speed increase/decrease, and measurement coefficient adjustment

Support OEM/ODM customization

Application:

Petroleum and chemical industry
 Steel, Metallurgy
 Food and Beverage
 Medical, pharmaceutical
 Civil engineering, building materials
 Sewage treatment, water conservancy irrigation
 Farmland, electricity
 Environmental protection equipment and construction machinery
 Paper making and mining machinery
 Gas pipeline network, fire protection, scientific research
 Gas, heating, air conditioning systems
 Textile machinery, fire protection

Features:

It can be used to measure non oil severely corroded media such as pure water and oil
 Matched with instruments, it can perform quantitative control and over quantity alarm, suitable for use in trade settlement
 No zero drift, low pressure loss, suitable for high-pressure measurement
 Fully isolated design structure, with multiple output signals to choose from
 Multiple installation methods available for selection
 Multiple liquid receiving materials available for selection

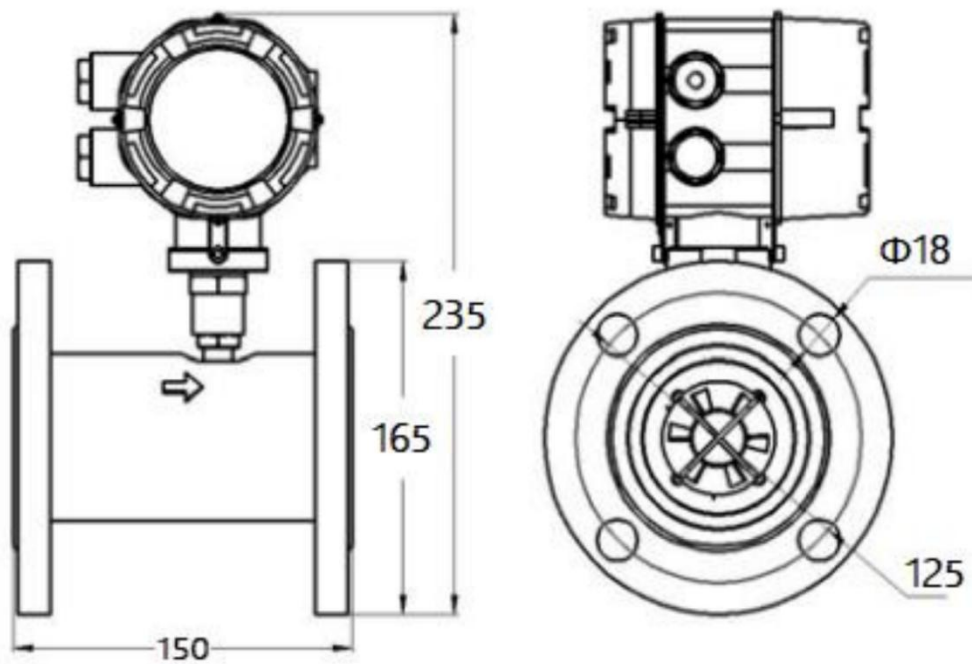


PRODUCT PARAMETERS

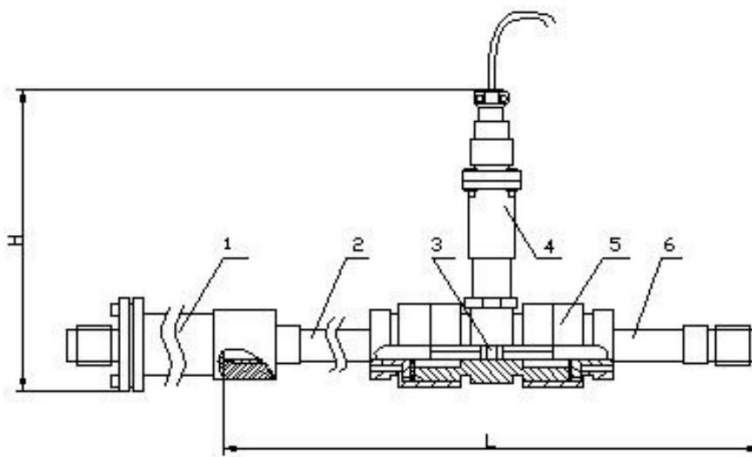
Converter Type	Integrated type, Segregate type, Low power consumption type
Structure Type	Standard type, Temperature and pressure compensation type, Explosion proof type
Measurement Medium	Liquid, Gas, Steam
Medium Temperature	Low temp. (-40℃~+150℃), Midium temp. (-40℃~+250℃), High temp. (-40℃~+350℃)
Nominal Diameter	DN15~DN1500
Installation Form	Flange Form, Clamping Form, Inline Form
Output/Communication	Pulse, 4-20mA, 4-20mA+Hart, 4-20mA+RS485, Customizable
Power Supply	12VDC, 24VDC, 3.6V battery, Customizable
Accuracy	±1.5%F.S, ±1%F.S, Customizable
Nominal Pressure	1.6MPa, 2.5MPa, 4.0MPa, Customizable
Housing And Flange Materials	Carbon steel, Stainless steel, Customizable
Ambient Temperature	-40℃~80℃ (Converter -15℃~60℃)
Explosion Proof	Without EX-proof, Ex db IIC T6 Gb, Ex ia IIC T6 Ga
Electrical Connections	M20X1.5, 1/2NPT, Customizable
Protection Grade	IP65, IP67 (Segregate type)

Metric diameter	4			4mm, Ordinary turbine flow range 0.04~0.25m ³ /h
	6			6mm, Ordinary turbine flow range 0.1~0.6m ³ /h
	10			10mm, Ordinary turbine flow range 0.2~1.2m ³ /h
	12			12mm, Ordinary turbine flow range 0.2~2m ³ /h
	15			15mm, Ordinary turbine flow range 0.6~6m ³ /h
	20			20mm, Ordinary turbine flow range 0.7~7m ³ /h
	25			25mm, Ordinary turbine flow range 1~10m ³ /h
	32			32mm, Ordinary turbine flow range 1.5~15m ³ /h
	40			40mm, Ordinary turbine flow range 2~20m ³ /h
	50			50mm, Ordinary turbine flow range 4~40m ³ /h
	65			65mm, Ordinary turbine flow range 7~70m ³ /h
	80			80mm, Ordinary turbine flow range 10~100m ³ /h
	100			100mm, Ordinary turbine flow range 20~200m ³ /h
	125			125mm, Ordinary turbine flow range 25~250m ³ /h
	150			150mm, Ordinary turbine flow range 30~300m ³ /h
200			200mm, Ordinary turbine flow range 80~800m ³ /h	

OVERALL DIMENSIONS

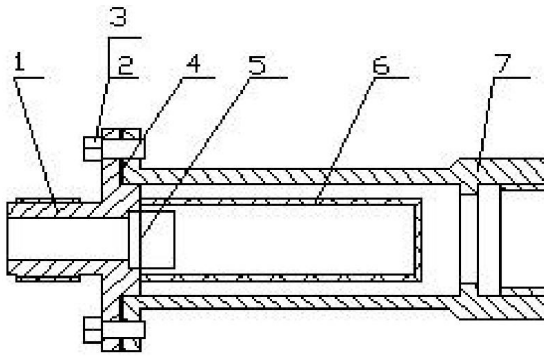


DN50/PN16



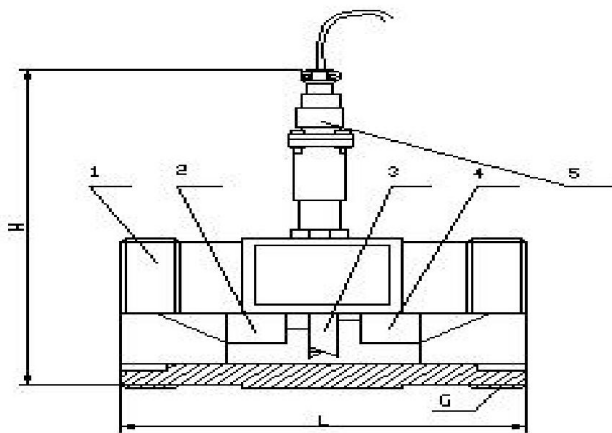
- 1. Filter 2. Front straight section 3. Impeller 4. Preamplifier
- 5. Case 6. Rear straight section

Overall structure diagram

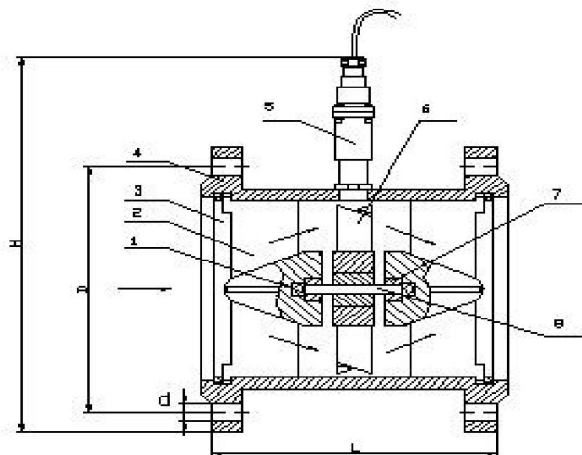


1. Compression ring 2. Bolt 4×14 3. washer 4. Sealing washer
 5. Steel wire 1Cr18Ni9Ti-0.8×2.5 6. Filter 7. seat

Filter structure diagram



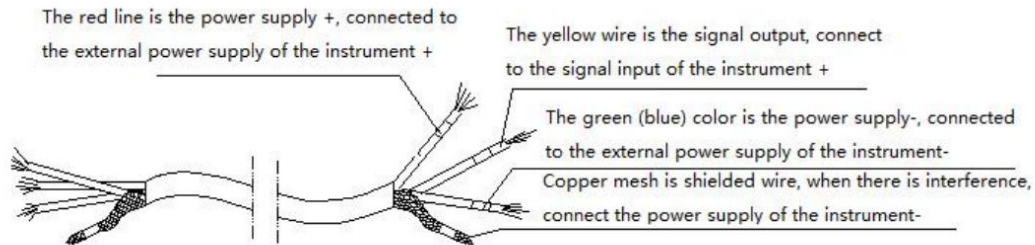
1. case 2. Front guide 3. Impeller 4. Rear guide 5. Preamplifier



1. Jack joint 2. Front guide 3. Rising circle 4. Case
 5. Preamplifier 6. Impeller 7. Bearing 8. Axis

PRODUCT CONNECTION MODE

(2) LWGY Turbine flow sensor wiring instructions: as shown



Wiring instructions for explosion-proof turbine flow sensor:

Open the back cover, as shown:

Frequency wiring: 24 power supply is connected to F + and F-, frequency line is connected

Fout, connect 3.6+ and 3.6- when the battery is powered,

485 wiring: 24V power is connected to F + and F-485 lines to A and B.

Current wiring: If the customer's field system is a two-wire system 24V + connected to I +, the current line is connected to I-.

Three-wire system, connect 24V + to I + and current line to I-, then short-circuit the current line and the GND of 24V power supply in the system.

Four-wire system, 24V + connects to I +, current line connects to I-, then short-circuit 24V GND and current GND of the system together.

PRODUCT SELECTION TABLE

Code															
ZJX-PA-F-A2	Turbine Flowmeter														
	Code	Nominal Diameter													
	Fill In The Actual Demand	DN4~DN300													
	Code	Converter Type													
	I	Integrated type													
	S	Segregate type													
	B	Low power consumption type													
	Code	Installation Form													
	F	Flange connection													
	T	Threaded													
	C	Chuck connection													
	Code	Measurement Medium													
	L	Liquid													
	G	Gas													
	Code	Medium Temperature													
	A	Low temp. (-20°C ~ +100°C)													
	C	High temp. (-20°C ~ +150°C)													
	Code	Output/Communication													
	S1	Pulse													
	S2	4-20mA													
	S3	4-20mA+Hart													
	S4	4-20mA+RS485													
	S5	Customizable													
	Code	Power Supply													
	P1	12VDC													
	P2	24VDC													
	P3	3.6V battery													
	P4	Customizable													
	Code	Accuracy													
	A1	±0.2%F.S													
	A2	±0.5%F.S													
	A3	±1%F.S													
	Code	Nominal Pressure													
	D1	0.6MPa													
	D2	1.6MPa													
	D3	2.5MPa													
	D4	4.0MPa													
	D5	Customizable													
	Code	Housing And Flange Materials													
	C	Carbon steel													
	S	Stainless steel													
	A	Customizable													
	Code	Explosion Proof													
	E0	Without EX-proof													
	E1	Ex db IIC T6 Gb													
	E2	Ex ia IIC T6 Ga													
	Code	Electrical Connections													
	C1	M20X1.5													
	C2	1/2NPT													
	C3	Customizable													
	Code	Protection Grade													
	L	IP65													
	C	IP67													
	H	IP68 (Segregate type)													
ZJX-PA-F-A2	DN50	I	F	L	A	S2	P2	A2	D2	S	E0	C2	C	Model No.Example	


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