



Product overview

According to Faraday's principle of electromagnetic induction, when a conductor passes vertically through magnetic field B, it will induce a voltage. U In the measurement of the flowmeter, the moving conductor is a flowing conductive medium, the magnetic field B is emitted from the direction perpendicular to the flowing medium, and the induced electromotive force U on the two electrodes E1 and E2 is directly proportional to the flow rate V of the medium.

$$U = K \times B \times V \times D$$

K- Meter constant

D- Internal probe spacing

After further processing, the induced electromotive force U is converted into a standard electrical signal output or display

Functional characteristics

- Compact design saves installation space
- Anti-corrosion sensor technology
- All electronic design without viscosity of moving parts
- Automatic temperature compensation
- Pulse output/analog output /RS485 communication optional
- Low pressure loss
- Strong anti-fouling ability

Technical parameter

◇ Measurement range:	Refer to the range table	◇ Ambient temperature:	-25...85°C
◇ Applicable pipe diameter:	DN4... DN25 (refer to the selection table)	◇ Medium temperature:	-40...120 without thermal shock (optional high temperature of 140°C)
◇ Measured medium:	Conductive liquid (conductivity > 20 uS/cm)	◇ Materials	
◇ Accuracy:	≤ ± 0.5% range	Electrode:	HC
◇ Reproducibility:	≤ ± 0.2% range	Process connection:	Stainless steel 304
◇ Pressure resistance:	16 bar	Measurement tube:	PEEK
◇ Power supply voltage:	24±10%Vdc	Sealing:	EPDM
◇ Current consumption:	≤80mA	Shell:	Stainless steel 304
◇ Electrical protection:	Anti-polarity protection, short circuit protection	◇ Electrical connection:	M12×1 connector
◇ Output		◇ Process connection:	External thread / Internal thread / Sanitary chuck optional
Pulse output:	NPN output, pull-up resistor 2K	◇ Response time:	< 100ms
Analog output:	4...20mA, current limiting 26mA, load resistance < 250Ω		

Wiring diagram

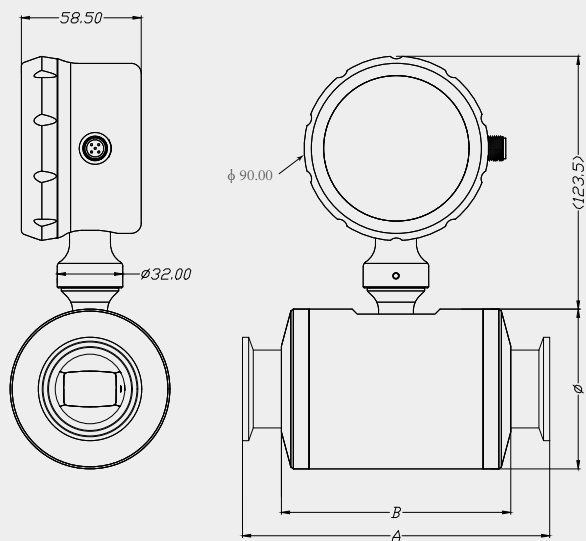
8-core wire

line	color	Feature
2	BN	power supply(+)
7	BU	power supply(-)
8	RD	RS485(A)
4	YE	RS485(B)
6	PK	pulse (+)
1	WH	pulse (-)
3	GN	electric current (-)
5	GY	electric current (+)

5-core wire

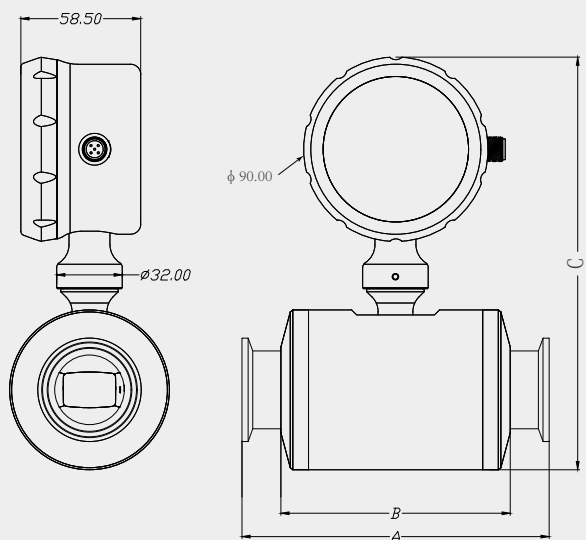
line	color	Feature
1	BN	power supply(+)
3	BU	power supply(-)
5	GY	Analog signal (mA)
2	WH	RS485 (A)
4	BK	RS485 (B)

Dimensional Drawing (mm) — Clamp Connection



■ ≤25 Diameter

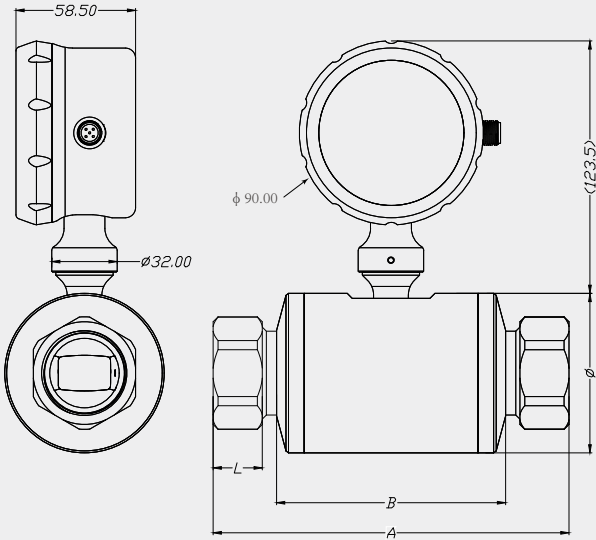
Model	Chuck Connection	Pipe diameter	A	B	ϕ	Measurement range
FM260-H04	25.4	DN4	90	60	45	0.1-10 L/min
FM260-H08	25.4	DN8	104	74	60	0.5-25 L/min
FM260-H12	50.5	DN12	120	90	70	1-60 L/min
FM260-H15	50.5	DN15	120	90	70	3-100 L/min
FM260-H25	50.5	DN25	150	112	78	4-200 L/min



■ > 25 Diameter

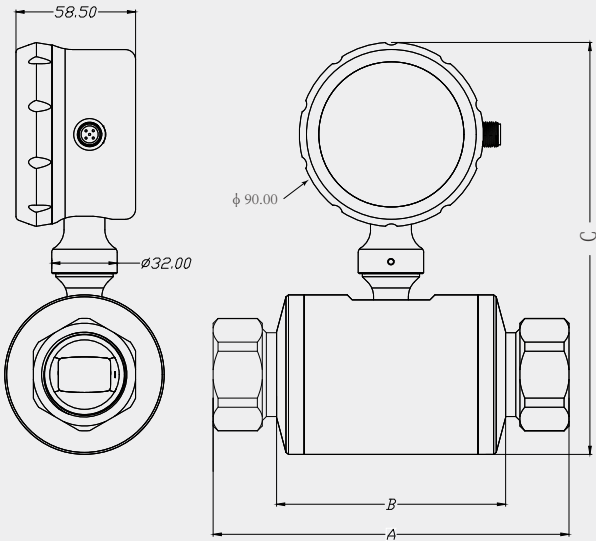
Model	Chuck Connection	Pipe diameter	A	B	C	Measurement range
FM260-H32	50.5	DN32	210	150	220	20-300 L/min
FM260-H40	64	DN40	210	150	250	4-30 ³ /h
FM260-H50	77.5	DN50	210	150	300	7-45 ³ /h

Dimensional Drawing (mm) — Internal Thread Connection



■ ≤25 Diameter

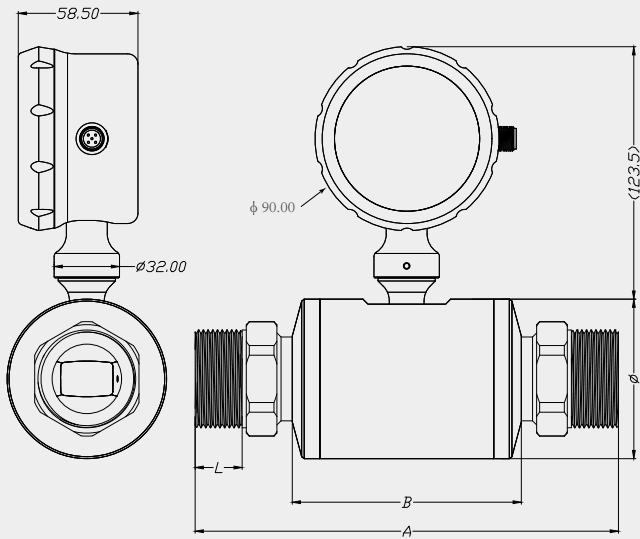
Model	Internal thread	Pipe diameter	A	B	Φ	Effective screw thread(L)	Measurement range
FM260-GK04	G1/4"	DN4	90	60	45	13	0.1-10 L/min
FM260-GK08	G1/2"	DN8	122	74	60	13	0.5-25 L/min
FM260-GK12	G3/4"	DN12	142	90	70	15	1-60 L/min
FM260-GK15	G3/4"	DN15	142	90	70	15	3-100 L/min
FM260-GK25	G1-1/4"	DN25	174	112	78	20	4-200 L/min



■ > 25 Diameter

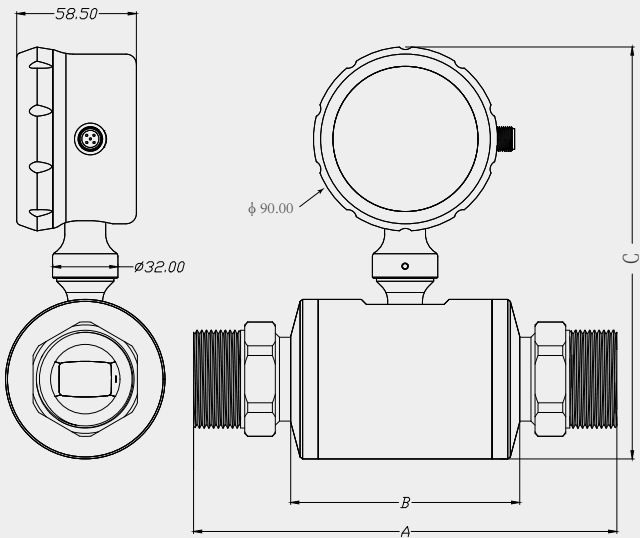
Model	Internal thread	Pipe diameter	A	B	C	Measurement range
FM260-GK32	1-1/2"	DN32	210	150	220	20-300 L/min
FM260-GK40	G2"	DN40	270	150	250	4-30 ³ /h
FM260-GK50	G2"	DN50	270	150	300	7-45 ³ /h

Dimensional Drawing (mm) — External Thread Connection



■ ≤25 Diameter

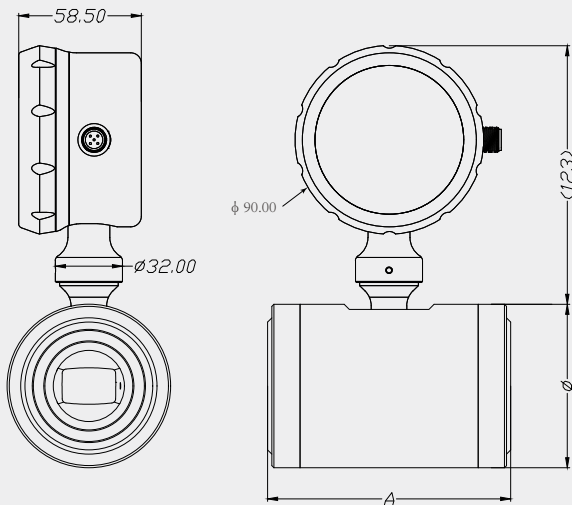
Model	External thread	Pipe diameter	A	B	φ	Effective screw thread(L)	Measurement range
FM260-GM04	G1/4"	DN4	110	60	45	12	0.1-10 L/min
FM260-GM08	G1/2"	DN8	141	74	60	18	0.5-25 L/min
FM260-GM12	G1"	DN12	170	90	70	20	1-60 L/min
FM260-GM15	G1"	DN15	170	90	70	20	3-100 L/min
FM260-GM25	G1-1/2"	DN25	207	112	78	25	4-200 L/min



■ > 25 Diameter

Model	External thread	Pipe diameter	A	B	C	Measurement range
FM260-GM32	G1-1/2"	DN32	210	150	220	20-300 L/min
FM260-GM40	G2"	DN40	270	150	250	4-30³/h
FM260-GM50	G2-1/2"	DN50	270	150	300	7-45³/h

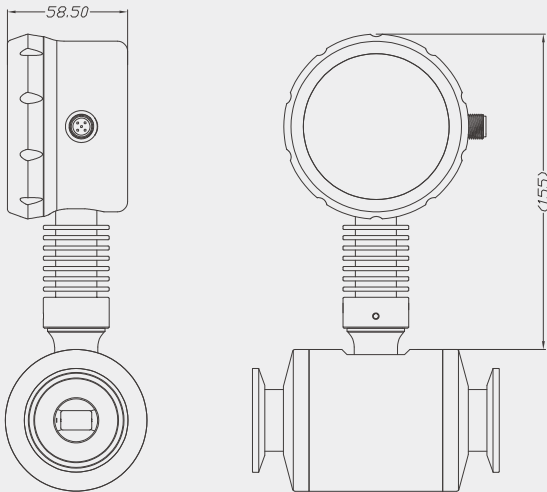
Dimension drawing (mm) - Flange clamp assembly connection



■ Flange clamp assembly connection

Model	Flange clamp	Pipe diameter	A	φ	Measurement range
FM260-F04	DN15	DN4	63	45	0.1-10 L/min
FM260-F08	DN25	DN8	80	60	0.5-25 L/min
FM260-F12	DN32	DN12	92	70	1-60 L/min
FM260-F15	DN32	DN15	92	70	3-100 L/min
FM260-F25	DN32	DN25	116	78	4-200 L/min

Dimension drawing (mm) - High-temperature type



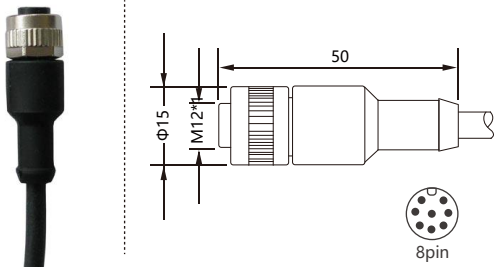
■ High-temperature type (≥80°)

Selection Table

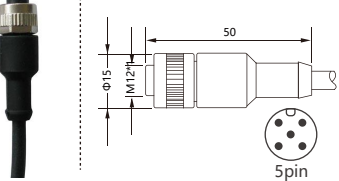
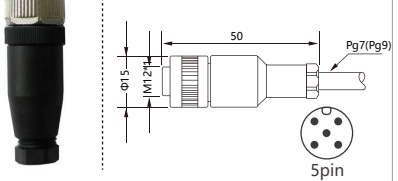
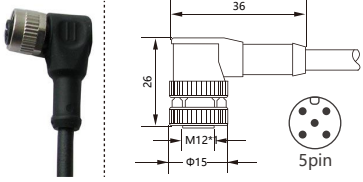
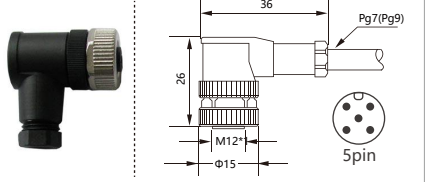
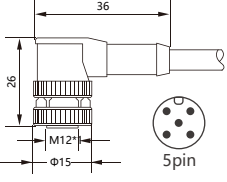
FM260-	H	04	PR	-	-	Explanation
FM260-						FM260 Electromagnetic Flowmeter
	H					Process connection: Clamp connection
	GK					Process connection: G thread internal teeth
	GM					Process connection: G thread external teeth
	F					Process connection: Flange mounting
		04				Measurement diameter: DN4
		08				Measurement diameter: DN8
		12				Measurement diameter: DN12
		15				Measurement diameter: DN15
		25				Measurement diameter: DN25
		32				Measurement diameter: DN32
		40				Measurement diameter: DN40
		50				Measurement diameter: DN50
			PR			Output signal: Pulse/Current/RS485 (8-wire)
			RA			Output signal: RS485/Analog mA (5-wire)
				-		Medium temperature: -20...80°C
				H1		Medium temperature: -20...140°C
				H2		Medium temperature: -40...120°C
				H3		Medium temperature: -40...140°C
					-	Sealing material: Silicone (-40...120°C coolant use)
					K	Sealing material: Perfluoroether
					E	Sealing material: Ethylene propylene diene monomer (EPDM)
					F	Sealing material: Fluoroceramic (0...120°C use)
					N	Sealing material: Nitrile

*Support customization of non-standard sizes

Optional accessories - Electrical accessories (M12*1-8Pin) :PR output signal wiring (Factory standard: ZL08-PC02G)

name	Outline drawing/dimension drawing (unit :mm)	material	Model number
M12*1-8Pin (2m cable)		PVC	ZL08-PC02G
M12*1-8Pin (5m cable)			ZL08-PC05G
M12*1-8Pin (10m cable)			ZL08-PC010G
M12*1-8Pin (2m cable)		PUR	ZL08-PU02G
M12*1-8Pin (5m cable)			ZL08-PU05G
M12*1-8Pin (10m cable)			ZL08-PU010G

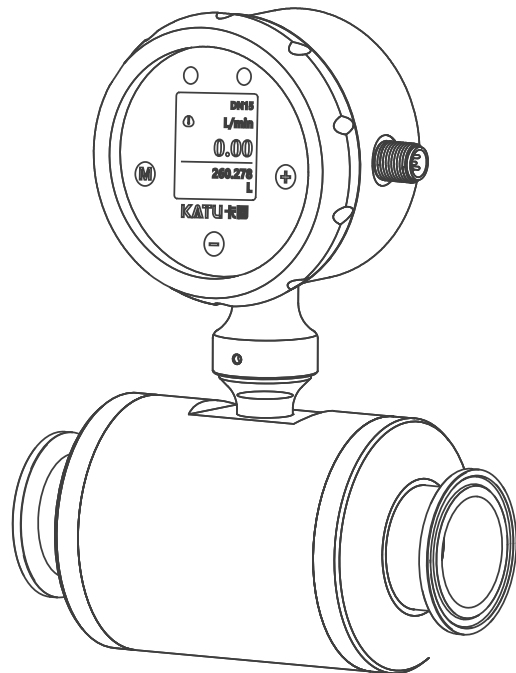
Optional accessories - Electrical accessories (M12*1-5Pin) :RA output signal wiring (Factory standard: ZL05-PC02G)

name	Outline drawing/dimension drawing (mm)	material	model	M12* 1-5Pin self-connector/size drawing (mm)	model
M12*1-5Pin (2m cable)		PUR	ZL05-PU02G		GL05 (5Pin joint)
M12*1-5Pin (5m cable)			ZL05-PU05G		
M12*1-5Pin (10m cable)			ZL05-PU010G		
M12*1-5Pin (2m cable)		PVC	ZL05-PC02G		WL05 (5Pin joint)
M12*1-5Pin (5m cable)		PUR	ZL05-PC05G		
M12*1-5Pin (10m cable)			ZL05-PC010G		
M12*1-5Pin (2m cable)		PUR	ZL05-PU02W		
M12*1-5Pin (5m cable)			ZL05-PU05W		
M12*1-5Pin (10m cable)			ZL05-PU010W		
M12*1-5Pin (2m cable)		PVC	ZL05-PC02W		
M12*1-5Pin (5m cable)			ZL05-PC05W		
M12*1-5Pin (10m cable)			ZL05-PC010W		

——— Sensor and controller ———
■ Flow ■ pressure ■ temperature ■ level ■ position

KATU 卡图

Operation instruction Electromagnetic flowmeter FM260 Series



Safety statement

- Before installing this device, please read this document to ensure that the product is suitable for your application and is not limited in any way;
 - Failure to follow the operating instructions or technical data may result in personal injury or property damage;
 - Check the compatibility of the product material with the medium to be tested in all applications;
 - The equipment is only used as the medium to be tested, and it must only be ensured that the equipment is used correctly for long-term stable operation.
- Ensure that the tested medium will not cause damage to the tested part of the product;

! The responsibility for determining whether the measurement sensor is suitable for the application lies with the operator, and the manufacturer accepts no responsibility for the consequences of improper use by the operator. Improper installation and use of the sensor results in invalid claims under warranty.

Flow sensors monitor the medium flow of fluids

Precautions: Beware of personal injury, overpressure danger!

catalogue

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1.1 Product Overview

According to Faraday's electromagnetic induction principle, when a conductive body passes perpendicularly through a magnetic field B, an electromotive force (EMF) will be induced. In this flowmeter, the moving conductor is the flowing conductive medium, and the magnetic field B is emitted perpendicular to the direction of the flowing medium, with the induced electromotive forces U at E1 and E2 proportional directly to the flow velocity V of the medium. $U = K \times B \times V \times D$

K-factor of K-type flowmeter

D- internal probe spacing

The induced electromotive force U, after further processing, is converted into a standard electrical signal output or displayed.

1.2 Functional characteristics

- Compact design saves installation space
- Anti-corrosion sensor technology
- All electronic design without viscosity of moving parts
- Automatic temperature compensation
- Pulse output/analog output /RS485 communication optional
- Low pressure loss
- Strong anti-fouling ability

1.3 Technical parameter

◇ Measuring range: See range table

◇ Suitable pipe diameter: DN4... DN25(see selection table)

◇ Measuring medium: conductive liquid (conductivity >20uS/cm)

◇ Accuracy: $\leq \pm 0.5\%$ range

◇ Repeatability: $\leq \pm 0.2\%$ range

◇ Pressure resistance: 16 bar

◇ Supply voltage: $24 \pm 10\%$ Vdc

◇ Current consumption: ≤ 80 mA

◇ Electrical protection: reverse polarity protection, short circuit protection

◇ Output

Pulse output: NPN output, pull-up resistor 2K

Analog output: 4... 20mA, current limit 26mA, load resistance < 250Ω

◇ Response time: < 100ms

◇ Ambient temperature: -25... 85 °C

◇ Medium temperature: -40... 120 No thermal shock (optional high temperature 160°C)

◇ Materials

Electrode: stainless steel 316Ti

Process connection: stainless steel 316Ti

Measuring tube: PEEK

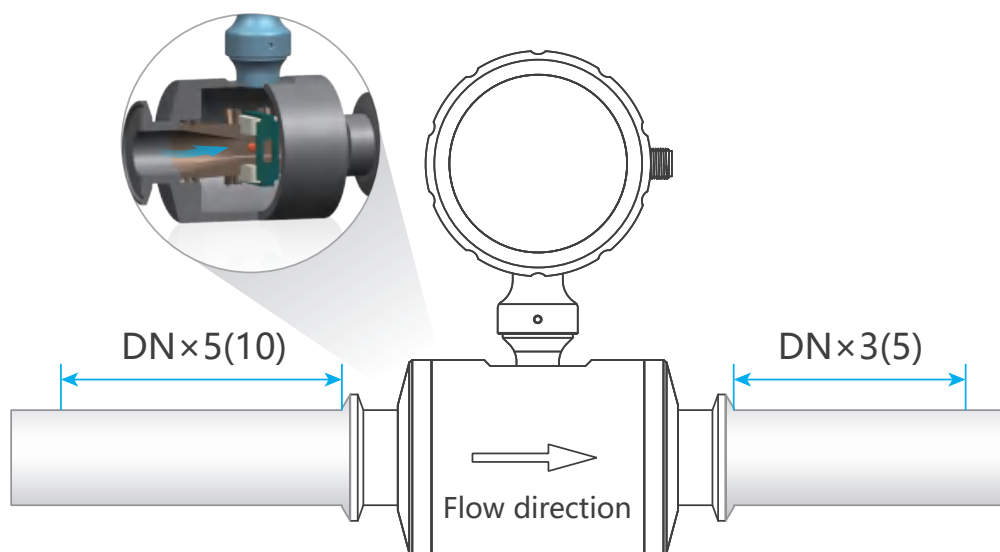
Seal: EPDM

Housing: stainless steel 304

◇ Electrical connection: M12×1 connector

◇ Process connection: external thread/internal thread/sanitary chuck can be selected

2.1 Installation precautions



Electromagnetic flowmeter installation method:

1. Select an installation position

The straight pipe section where the fluid flow is stable in the piping system should be selected. Generally, the length of the upstream straight pipe section is 5 to 10 times the pipe diameter, and the length of the downstream straight pipe section is 3 to 5 times the pipe diameter. Stay away from strong magnetic fields and strong electric field interference sources, such as large motors, transformers, high-voltage lines, etc. If it is not possible to stay away, shielding measures should be taken. The installation position should be easy to maintain and repair, and have enough operation space.

2. Installation method

Horizontal installation: The electromagnetic flowmeter can be installed horizontally, but it is necessary to ensure that the electrode axis is parallel to the ground, and the pipes at both ends of the flowmeter should be on the same horizontal plane to avoid high and low drop.

Vertical installation: can also be installed vertically, this time should ensure that the electrode axis and the ground vertical.

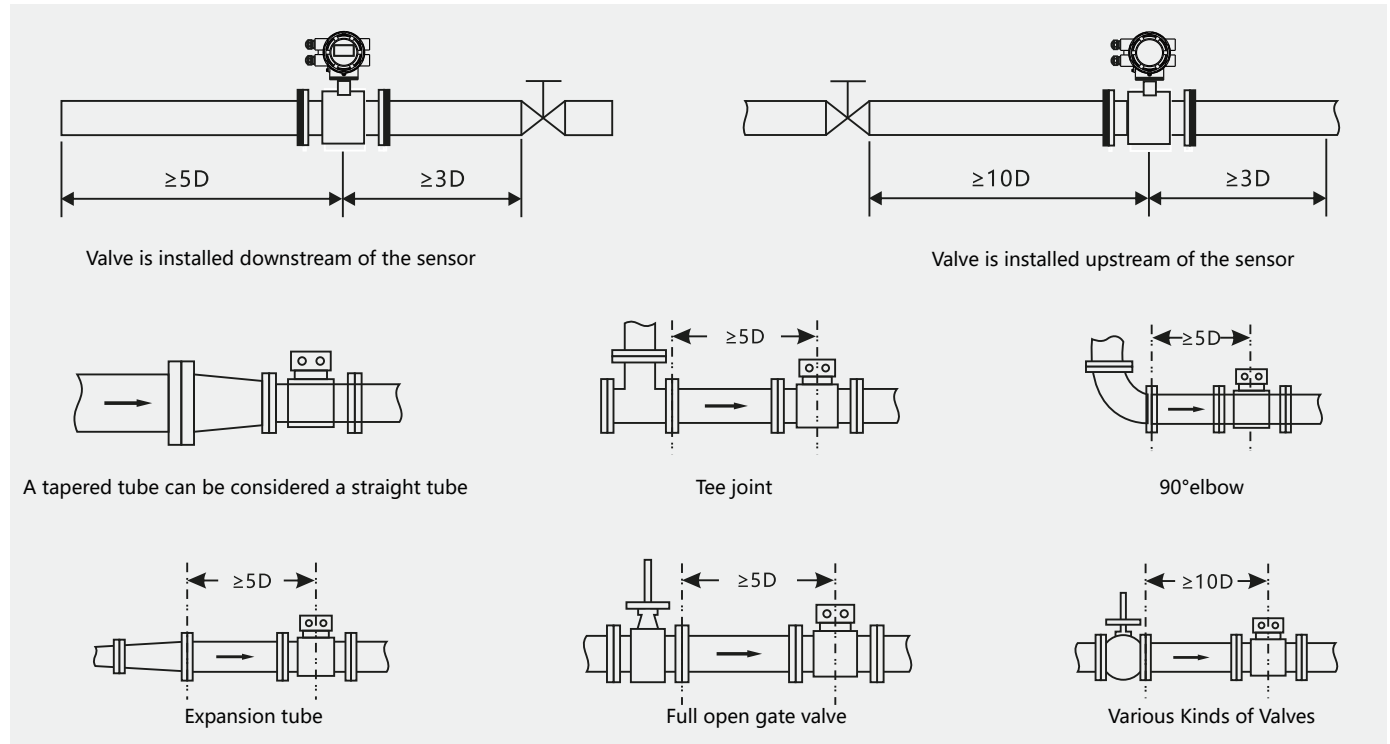
Electromagnetic flowmeter installation precautions:

Handle the flowmeter gently during installation to avoid collision and falling.

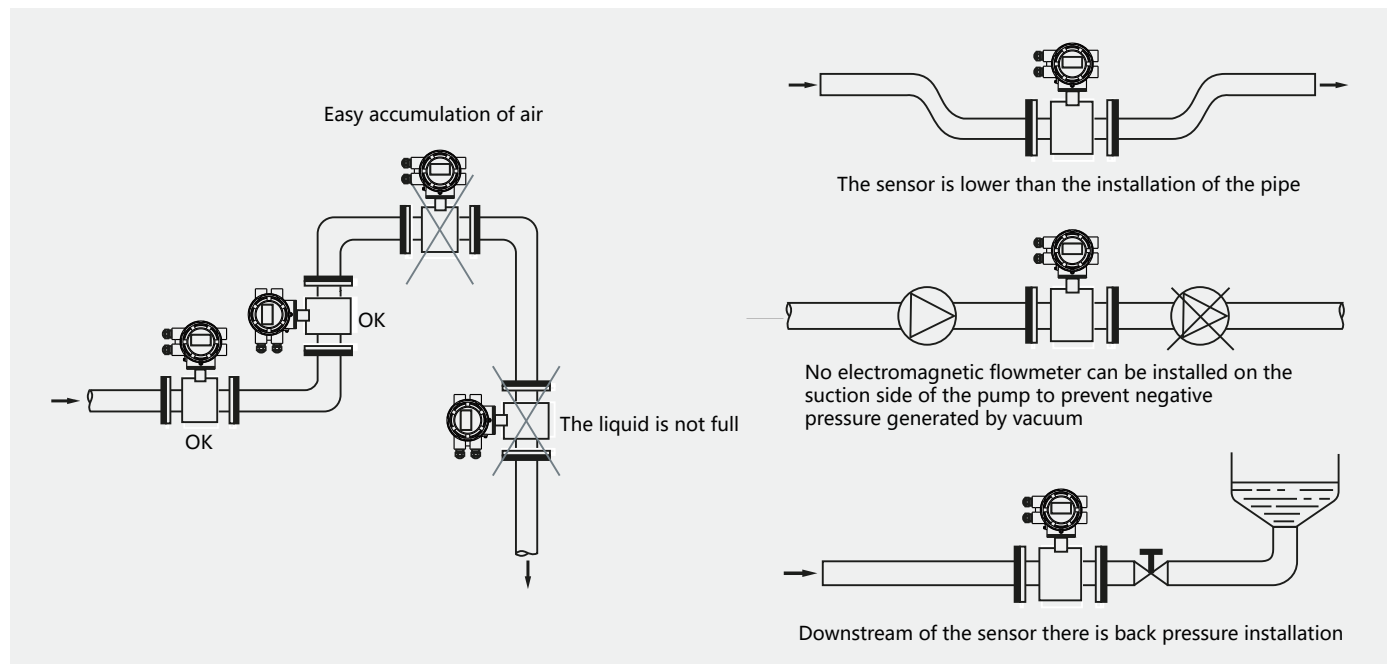
Install in strict accordance with the product instructions, and do not arbitrarily change the installation method and connection line.

After the installation is complete, check whether the connection parts are secure and the cables are correctly connected.

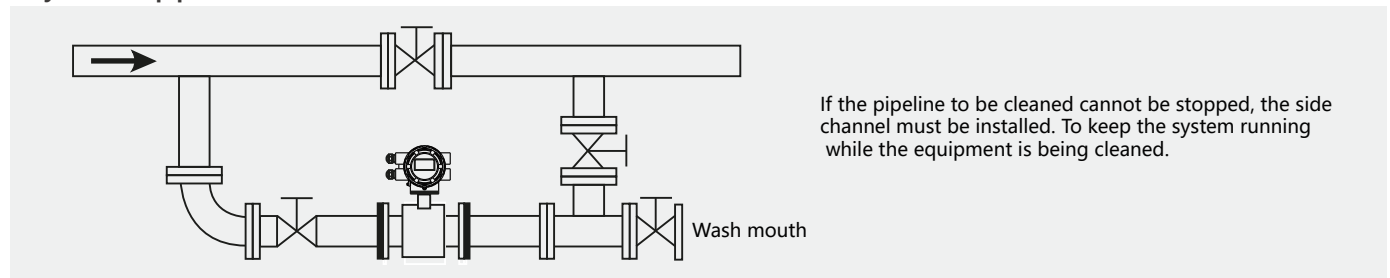
Straight pipe length requirements



Recommended installation location



Easy to clean pipe connections



3.1 Wiring diagram

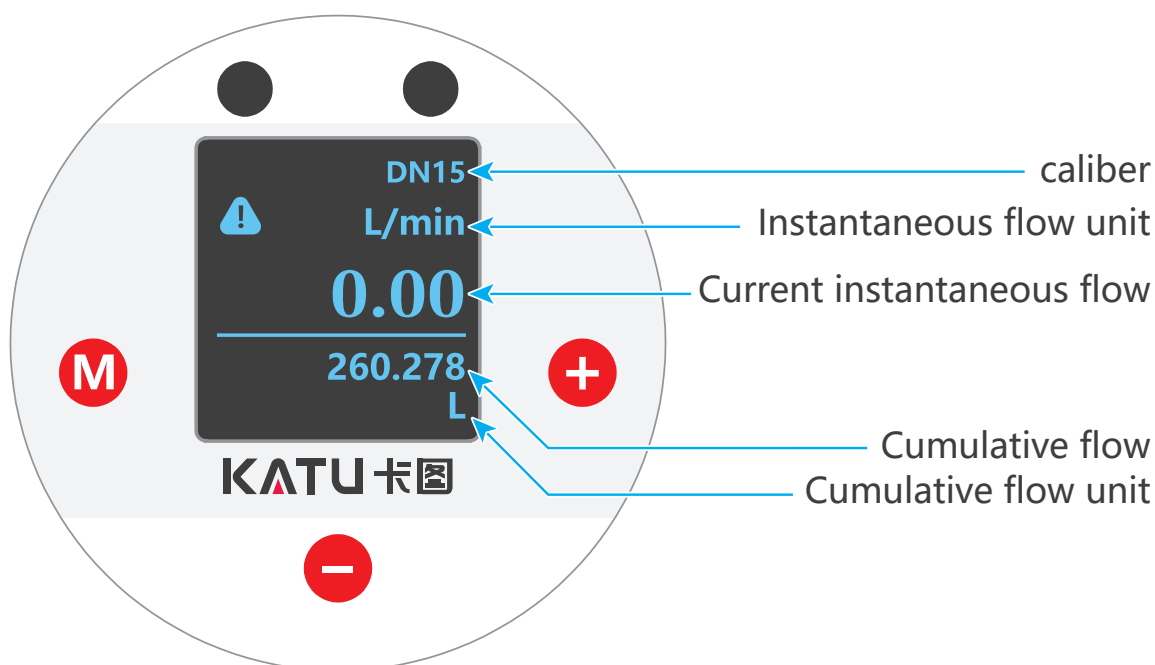
RS485/analog mA

stitch	color	function
1	BN	power supply(+)
3	BU	power supply(-)
5	GY	Analog quantity (mA)
2	WH	RS485(A)
4	BK	RS485(B)

Pulse/current /RS485

stitch	color	function
2	BN	power supply(+)
7	BU	power supply(-)
8	RD	RS485(A)
4	RU	RS485(B)
6	PK	pulse (+)
1	WH	pulse (-)
3	GN	Electric current (-)
5	GY	Electric current (+)

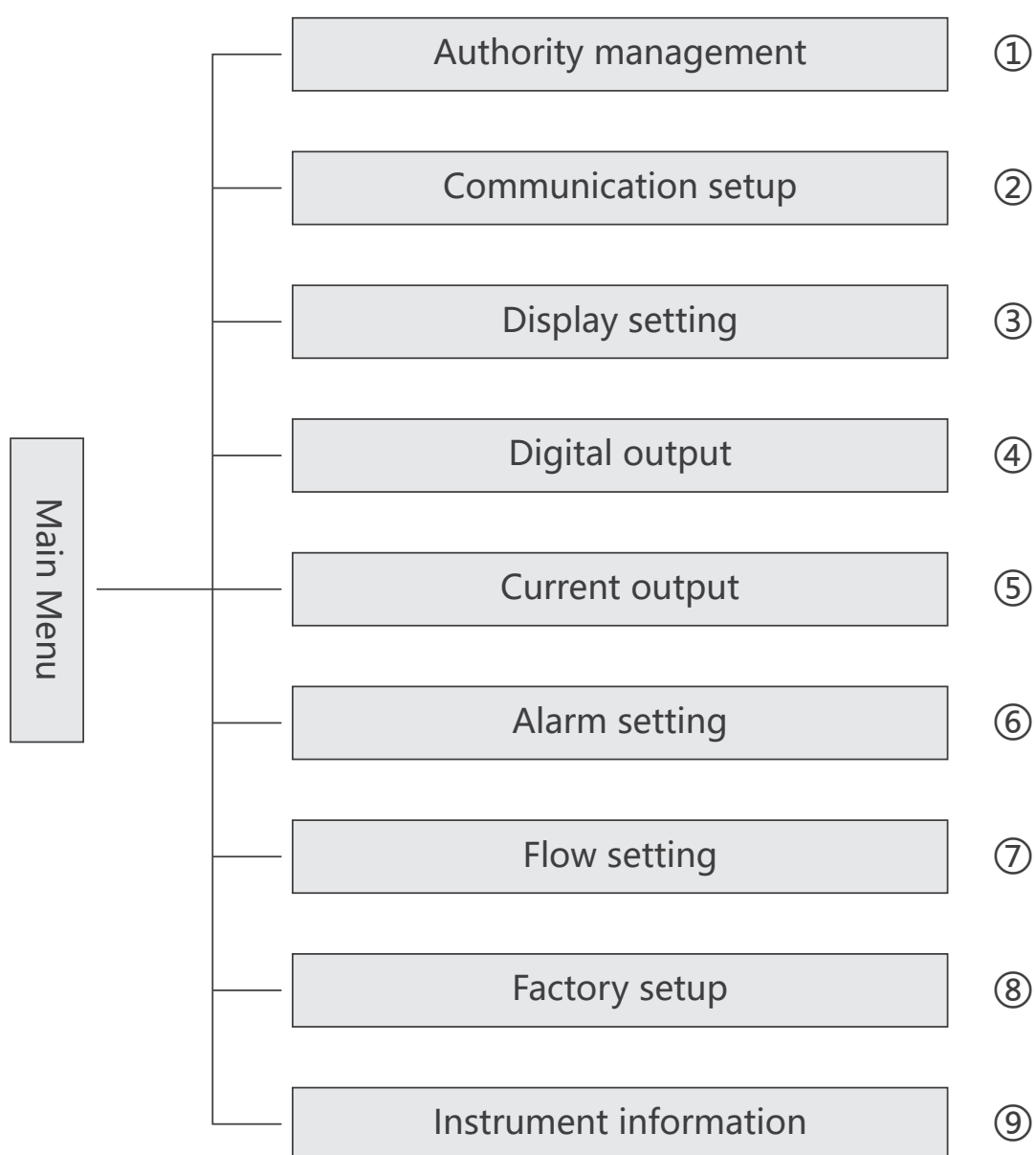
4.1 Description of panels and keys



Key description

1. Long press the "M " key, the first time traffic related data appears, press again to display alarm information
2. Press M and - at the same time to enter the password menu. The maximum permission is 4, and the password is 000000
3. Press the + key to flip up, and the - key to flip down. Press the M and + keys at the same time to shift.
4. When the menu is displayed, press M and - to return to the previous menu, and hold down M to enter the current menu
5. Hold down the - and + keys at the same time, and hold down for 5 seconds to rotate the display screen 90 degrees. This operation is limited to the main screen.

5.1 Main Menu



5.2 Menu introduction and operation

① Rights Management

Authority management

New password Settings
Instrument reset

New password Settings

Please enter your new password
000000

Cancel Confirm

Instrument reset

The meter will restart
Prohibition/use

Cancel Confirm

② Communication setup

Communication setup

Instrument address
Baud rate
Check bit
Stop bit

Instrument address

1~247
001

Cancel Confirm

Baud rate

9600、4800

Cancel Confirm

Check bit

no parity check
parity check
odd check

Cancel Confirm

Stop bit

1 bit 2 bit

Cancel Confirm

③ Display setting

Display setting

Accumulator selection
Accumulator decimal place
Accumulator integer bit
Instantaneous quantity selection
User coding
Instantaneous decimal place
Language
rotate

Accumulator selection

Accumulator 1 Accumulator 2

Cancel Confirm

Accumulator decimal place

3 bit / 2 bit / 1 bit

Cancel Confirm

Accumulator integer bit

5~15
08

Cancel Confirm

Instantaneous quantity selection

Flow rate/Flow rate
/percentage of traffic

Cancel Confirm

User coding

Maximum 10 characters
EMF 0001

Cancel Confirm

Instantaneous decimal place

2 bit /3 bit /4 bit /1 bit/None

Cancel Confirm

Language

Chinese English

Cancel Confirm

rotate

0" 90 " 180" 270 "

Cancel Confirm

④ Digital output

Digital output

Output enable
Output polarity selection
Function selection
Pulse measurement polarity
Pulse equivalent
Pulse width
Frequency measurement polarity
Frequency range
Frequency duty cycle

Output enable

Enable/disable

Cancel Confirm

Output polarity selection

Low/high level

Cancel Confirm

Function selection

Frequency/pulse

Cancel Confirm

Pulse measurement polarity

Forward/reverse/bidirectional

Cancel Confirm

Pulse equivalent

0.0~100000000.0
1.0 L/P

Cancel Confirm

Pulse width

0.05~1000
1.00 ms

Cancel Confirm

Frequency measurement polarity

Forward/reverse/bidirectional
/ absolute value

Cancel Confirm

Frequency range

1~2000
1000 Hz

Cancel Confirm

Frequency duty cycle

10~90
50 %

Cancel Confirm

⑤ Current output

Current output

Output enable
Measurement polarity
Calibrating enable
4mA calibration value
20mA calibration value
The switch alarm was enabled
Output mode

Output enable

Enable/disable

Cancel Confirm

Measurement polarity

Forward/reverse/bidirectional
/ absolute value

Cancel Confirm

Calibrating enable

prohibit
20mA/4mA calibration
function is enabled

Cancel Confirm

4mA calibration value

Please enable 4mA calibration first
5.0020 mA

Cancel Confirm

20mA calibration value

Please enable 20mA
calibration first
24.999 mA

Cancel Confirm

switch alarm was enabled

Disable/Enable

Cancel Confirm

Output mode

4-20mA 0-20mA

Cancel Confirm

⑥ Alarm setting

Alarm setting

Flow reverse alarm was enabled
Flow reverse alarm threshold
Flow upper limit alarm was enabled
Upper flow alarm threshold
Flow upper limit alarm was enabled
Upper flow alarm threshold

Flow reverse alarm was enabled

Enable/disable

Cancel Confirm

Flow reverse alarm threshold

-10~10
0.00 %

Cancel Confirm

Flow upper limit alarm
was enabled

Enable/disable

Cancel Confirm

Upper flow alarm threshold

-200~200
90.00 %

Cancel Confirm

Flow upper limit alarm
was enabled

Enable/disable

Cancel Confirm

Upper flow alarm threshold

-20~200
10.00 %

Cancel Confirm

⑦ Flow setting

Flow setting

Flow

Accumulator 1 unit
 Accumulator 1 Unit coefficient
 Accumulator 1 function
 Accumulator 1 Set
 Accumulator 2 unit
 Accumulator 2 Unit coefficient
 Accumulator 2 function
 Accumulator 2 Settings
 Flow unit
 Unit coefficient of discharge
 Flow range
 Low-flow excision
 Flow direction setting
 Flow reverse measurement was enabled
 Filter constant
 Subscriber instrument factor
 User zero
 The ATC detection was enabled. Procedure
 Atc detection threshold
 Excitation alarm enabled

Accumulator 1 unit

Max 5 characters

L

Cancel Confirm

Accumulator 1 Unit coefficient

0.000001~1000000

1000.00

Cancel Confirm

Accumulator 1 function

Forward cumulative
 /reverse cumulative
 /Total/net cumulative disabled

Cancel Confirm

Accumulator 1 Set

0.001~999999999

0.000 L

Cancel Confirm

Flow lower limit alarm was enabled

Max 5 characters

L

Cancel Confirm

Accumulator 2 Unit coefficient

0.000001~1000000

1000.00

Cancel Confirm

Accumulator 2 function

Disable
 /Forward accumulation/reverse
 Cumulative to/total/net

Cancel Confirm

Accumulator 2 Set

0.001~999999999

0.000 L

Cancel Confirm

Flow unit

Max 8 characters

L/min

Cancel Confirm

Coefficient of flow unit

0.000001~1000000

16.6667

Cancel Confirm

Flow range

0.0001~999999
100.000 L/min

Cancel Confirm

Small signal excision

0.0001~1.0000
0.0050 m/s

Cancel Confirm

Flow direction setting

Forward/reverse

Cancel Confirm

Flow reverse measurement
was enabled

Enable/disable

Cancel Confirm

Filter constant

0~10
00

Cancel Confirm

Subscriber instrument factor

0.5~1.5
1.0000

Cancel Confirm

User zero

-0.01~0.01
0.00000 m/s

Cancel Confirm

ATC detection was enabled
. Procedure

Enable/disable

Cancel Confirm

Atc detection threshold

2.0~200.0
40.0 K Ω

Cancel Confirm

Excitation alarm enabled

Enable/disable

Cancel Confirm

⑧ Factory setup

Factory setup

caliber
 Converter coefficient
 Sensor coefficient
 Sensor zero correction
 Electrode impedance 200K Ω calibration value
 Electrode impedance 0K Ω calibration value
 system forward accumulator is set
 System reverse accumulator Settings
 Temperature 0 Resistor calibration value
 Temperature 1K resistance calibration value
 Nonlinear corrected flow rate 1
 Nonlinear corrected flow rate 1 coefficient
 Nonlinear corrected flow rate 2
 Nonlinear corrected velocity 2 coefficient
 Nonlinear corrected flow rate 3
 Nonlinear corrected flow rate 3 coefficient
 Nonlinear corrected flow rate 4
 Nonlinear corrected velocity 4 coefficient
 Nonlinear corrected flow rate 5
 Non-linear correction velocity 5 coefficient

caliber

8~300
015 mm

Cancel Confirm

Converter coefficient

0.01~10.0
1.0000

Cancel Confirm

Sensor coefficient

0.01~10.0
1.0000

Cancel Confirm

Sensor zero correction

-0.2~0.2
0.00000 m/s

Cancel Confirm

Electrode impedance 200K Ω
calibration value

Please separate the two signal electrodes to the ground
Don't connect the 200K Ω resistor
021.6 K Ω

Cancel Confirm

Electrode impedance 0K Ω
calibration value

Please put the two signal electrodes
Short connect to ground

Cancel Confirm

system forward accumulator
is set

0.001~999999999
00000000.000 m3

Cancel Confirm

System reverse accumulator
Settings

0.001~999999999
00000000.000 m3

Cancel Confirm

Temperature 0 Resistor
calibration value

-50.0~50.0
0.00 Ω

Cancel Confirm

Temperature 1K resistance
calibration value

950.0~1050.0
1000.00 Ω

Cancel Confirm

Nonlinear corrected flow rate 1

0.00~15.0
0.0000 m/s

Cancel Confirm

Nonlinear corrected flow rate 1

coefficient
0.0~10.0
0.0000

Cancel Confirm

Nonlinear corrected flow rate 2

0.00~15.0
0.0000 m/s

Cancel Confirm

Nonlinear corrected flow rate 2

coefficient
0.0~10.0
0.0000

Cancel Confirm

Nonlinear corrected flow rate 3

0.00~15.0
0.0000 m/s

Cancel Confirm

Nonlinear corrected flow rate 3

coefficient
0.0~10.0
0.0000

Cancel Confirm

Nonlinear corrected flow rate 4

0.00~15.0
0.0000 m/s

Cancel Confirm

Nonlinear corrected flow rate 4

coefficient
0.0~10.0
0.0000

Cancel Confirm

Nonlinear corrected flow rate 5

0.00~15.0
0.0000 m/s

Cancel Confirm

Nonlinear corrected flow rate 5

coefficient
0.0~10.0
0.0000

Cancel Confirm

⑨ Instrument information

Instrument information Sensor serial number Converter serial number Converter software version number Converter hardware version number	Sensor serial number Up to 14 characters ----- _____ Cancel Confirm	Converter serial number Up to 14 characters ----- _____ Cancel Confirm
	Converter software version number Up to 14 characters V1.13-20230814 _____ Cancel Confirm	Converter hardware version number Up to 14 characters ----- _____ Cancel Confirm

6.1、Modbus Register address table

MODBUS register	Number of registers	data type	Chinese name	unit	Access authority	Description
0	2	float	Velocity of flow	m/s	R	Update once per measurement cycle
2	2	float	Volume flow	Same user unit	R	
4	2	float	Percentage of flow	%	R	Volume flow as a percentage of full scale
6	4	double	User accumulator 1	Same user unit	R/W	Changes can be made with the multi-register write command
10	4	double	User accumulator 2	Same user unit	R/W	
14	4	double	System forward accumulator	m3	R	-
18	4	double	System reverse accumulator	m3	R	-
22	2	float	temperature	°C	R	-
24	2	uint32_t	Give an alarm	-	R	0x0000: None 0x0001: Air flow control alarm 0x0002: flow reverse alarm 0x0004: flow upper limit alarm 0x0008: flow lower limit alarm 0x0010: Excitation coil alarm 0x0020: Storage exception alarm 0x0040: Low electrode resistance alarm 0x0080: Temperature upper limit alarm 0x0100: Temperature lower limit alarm 0x0200: Current open circuit alarm
26	1	uint16_t	Flow direction	-	R	0: forward 1: reverse
27	2	float	Electrode	ohm	R	-
29	2	float	PT1000 resistance value	ohm	R	

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