

Thermal Gas Mass Flow Meter



Flange type connection



Insertion type connection

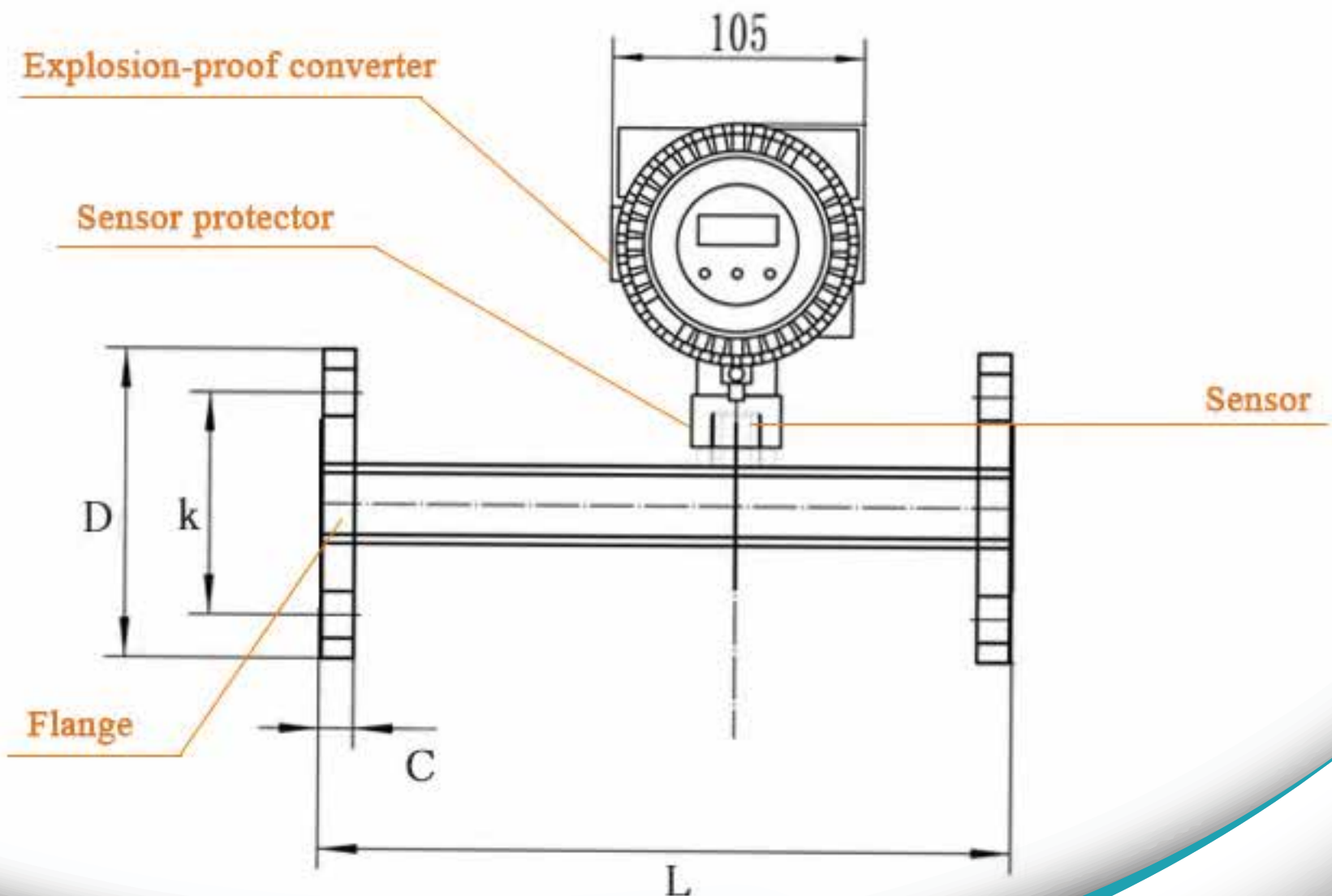


Tri-clamp type connection



Thread type connection

Thermal Gas Mass Flow Meter Dimension



Thermal Gas Mass Flow Meter Installation Parameters

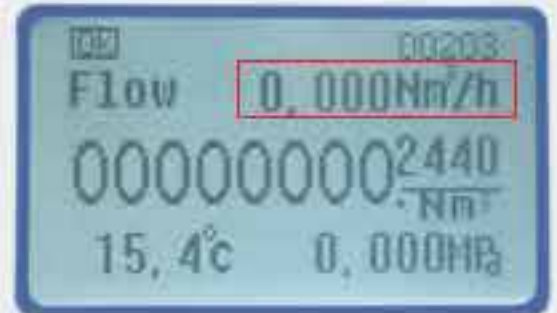
Nominal dia.	Flange outer dia.	Center hole	Bolt hole	Screw bolt	Flange thickness	Installation length
DN	D	k	n x L		C	L
10	90	60	4X14	M12	16	280
15	95	65	4X14	M12	16	280
20	105	75	4X14	M12	18	280
25	115	85	4X14	M12	18	280
32	140	100	4X18	M16	18	350
40	150	110	4X18	M16	18	350
50	165	125	4X18	M16	20	350
65	185	145	4X18	M16	20	400
80	200	160	8X18	M16	22	400
100	220	180	8X18	M16	22	500
125	250	210	8X18	M16	24	500
150	285	240	8X22	M20	24	500
200	340	295	12X22	M22	26	500
250	405	355	12X26	M22	28	500
300	460	410	12X26	M22	30	500

Why choose us

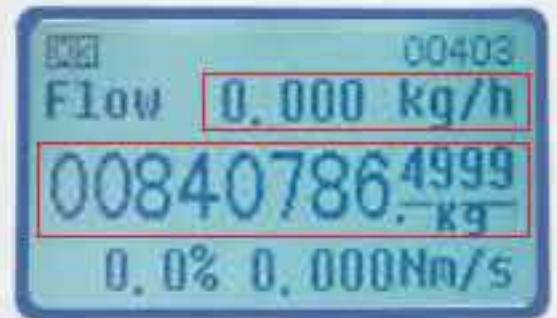
NO.1

LCD HD Display

Multiple flow units



Nominal standard volume flow



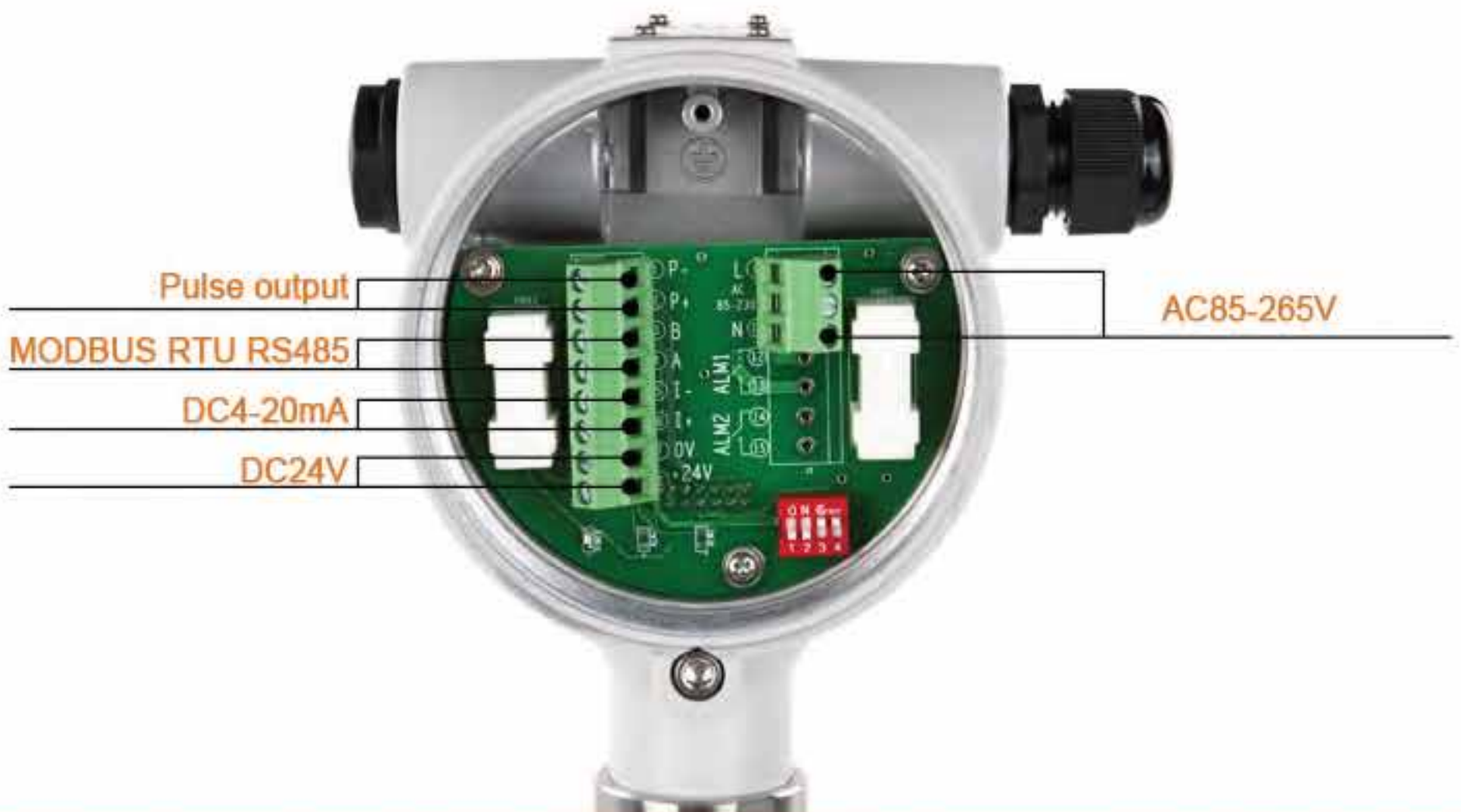
Mass flow and accumulated flow

High accuracy, Stable performance, Multiple flow units seamless switching and multi-function setting

NO.2

Dual Power Supply

More options in the wiring process



With DC4-20mA four-wire output, which is more convenient for remote reception. Support MODBUS RTU RS485 protocol, coordinating the receiving system to collect more data and modify system

NO.3

Refined Shielded Rod

Stainless Steel 304 Rod, Corrosion Resistant



DN32~DN50

Standard rod dia.: ϕ 12mm

Optional rod dia.: ϕ 14mm

DN65~DN4000

Standard rod dia.: ϕ 19mm

Optional rod dia.: ϕ 12mm, ϕ 14mm

NO.4

Anti-Shedding Design

Standard:
Copper material



Option: PTFE



NO.5

High Precision Reinforced Sensor

The sensor is adopted reinforcing design and the root is partially reinforced to make the probe stronger and more suitable for a variety of media



Standard sensor

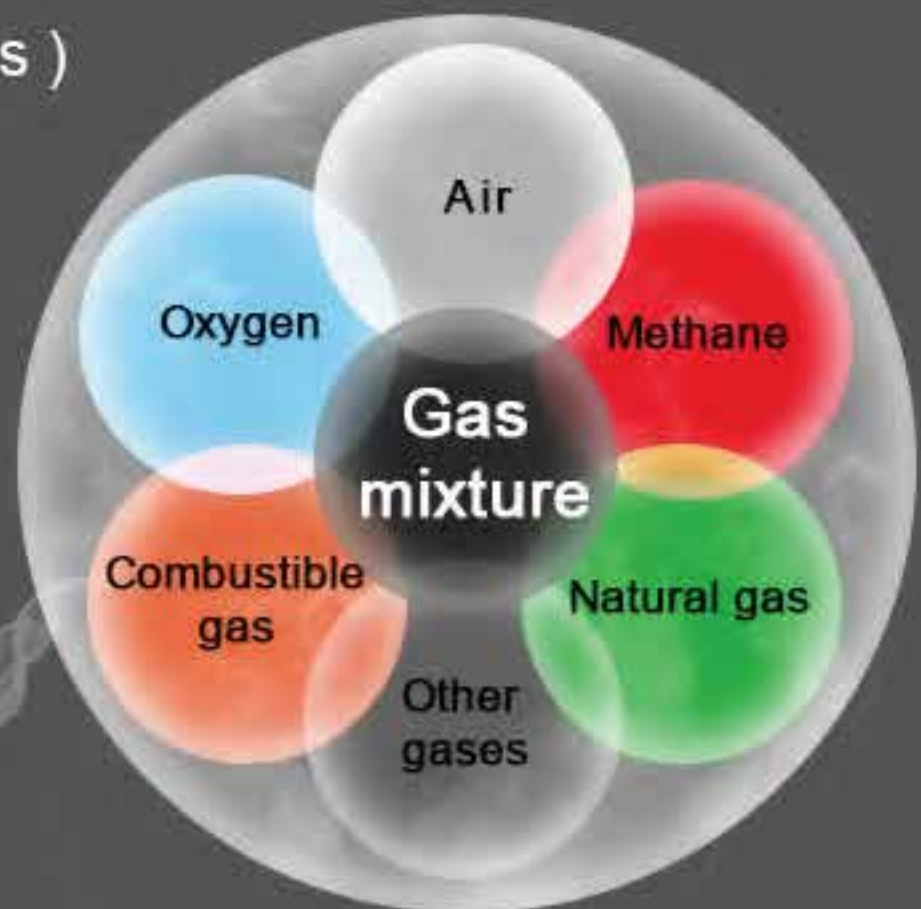


Optional sensor

NO.6

Could Measure Mixed Gas

(Except acetylene and humid gas)



Detailed Gas Composition is Needed fo Model Selection

NO.7

Wide Flow Range, High Sensitivity

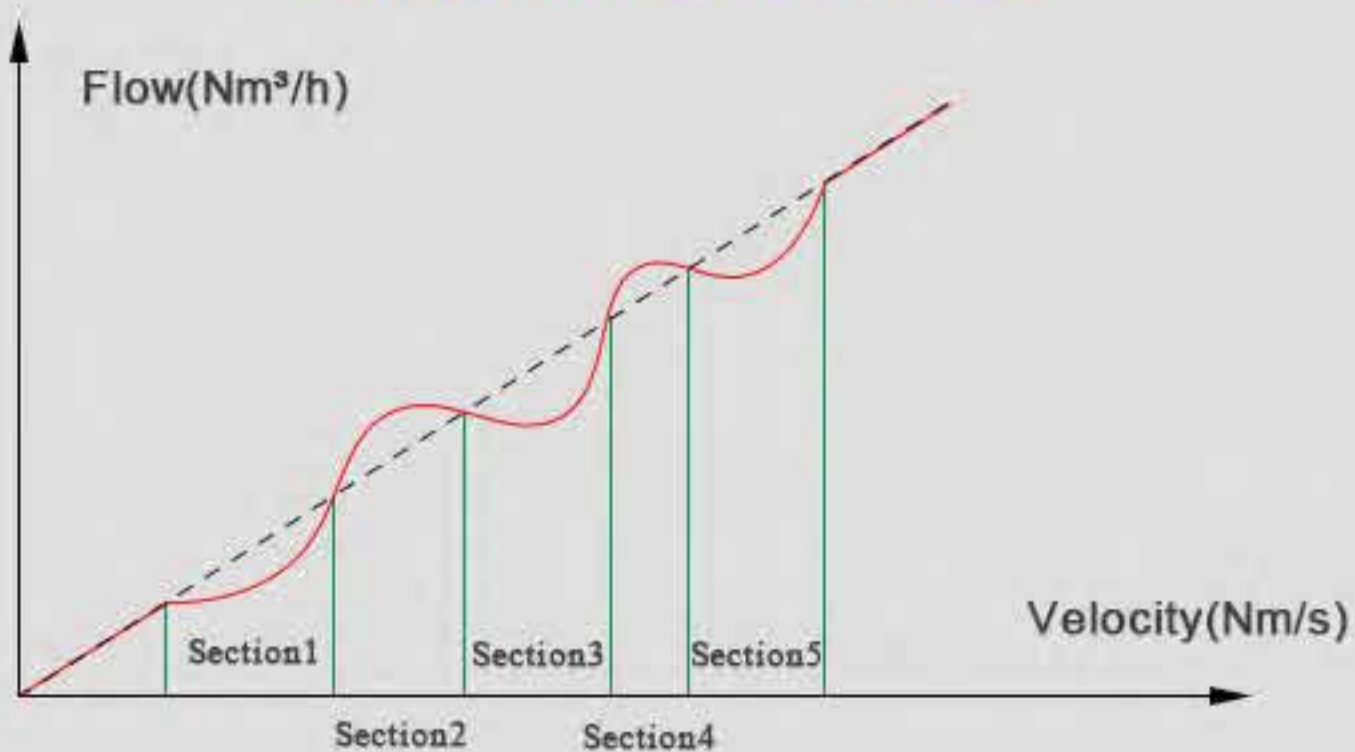
The minimum flow velocity is 0.1Nm/s



The thermal gas flowmeter is mainly used for measuring gas with low flow and the range could reach 1:1000, which is better than gas flowmeter on market and low flow could be measured.

NO.8

Thermal Gas Mass Flowmeter Segment Correction



Can be divided into five sections for correction, this operation will make measuring more accurate

NO.9

Easy To Install And Maintain

Could be installed and maintained without stopping production



Online installation

Only need to reserve 20mm mounting hole

Insertion type thermal gas mass flow meter need to reserve 20mm mounting hole, which could be used to weld and fix the base.
(Option: Inline type thermal gas mass flow meter could be made Min.size 10mm)

Thermal Gas Flowmeter Parameter

Media	Various Gases (Except acetylene)
Pipe Size	Insertion type:DN32~DN4000mm Flange type:DN10~DN300 (Can be customized) Tri-clamp type:DN10~DN100 Thread type:DN10~DN100
Velocity	0.1-100Nm/s
Accuracy	In-line type:±1.0% Insertion type:±1.5%
Working Temperature	Sensor:-40~+220 degC Transmitter:-20~+80 degC
Working Pressure	Insertion type ≤1.6Mpa Flange type ≤4.0Mpa Special pressure please double check
Power Supply	DC24V and AC220V
Response Time	1s
Output	4-20mA,Pulse,RS485 (HART is optional)
Alarm Output	1-2 way relay,10A/220V/AC or 5A/30V/DC
Construction	Compact and Remote
Pipe Material	Carbon Steel, Stainless Steel,Plastic etc.
Display	4 lines LCD Mass flowrate, Nominal flowrate, Flow totalizer, Velocity
Protection	IP65

Common Gas Upper Limit Flow

Caliber (mm)	Air	Nitrogen (N ₂)	Oxygen (O ₂)	Hydrogen (H ₂)
10	28	28	14	4
15	65	65	32	10
25	175	175	89	28
32	290	290	144	45
40	450	450	226	70
50	700	700	352	110
65	1200	1200	600	185
80	1800	1800	900	280
100	2800	2800	1420	470
125	4400	4400	2210	700
150	6300	6300	3200	940
200	10000	10000	5650	1880
250	17000	17000	8830	2820
300	25000	25000	12720	4060
350	45000	45000	22608	5600
400	70000	70000	35325	7200
450	100000	100000	50638	9200
500	135000	135000	69240	11280
600	180000	180000	90432	16300
700	220000	220000	114500	22100
800	280000	280000	141300	29000
900	400000	400000	203480	36500
1000	600000	600000	318000	45000
2000	700000	700000	565200	18500

Nominal Condition Flow is the flow rate at Temperature 20°C and Pressure 101.325Kpa.

Thermal Gas Flow Meter Selection Table

Model	QTMF	X	X	X	X	X	X	X
Caliber	DN10-DN4000							
Structure	Compact	C						
	Remote	R						
Sensor type	Insertion		I					
	Flange		F					
	Clamp		C					
	Thread		S					
Material	SS304			304				
	SS316			316				
Pressure	1.6Mpa				1.6			
	2.5Mpa				2.5			
	4.0Mpa				4.0			
Temperature	-40-220°C						T1	
Power Supply	AC85~250V							AC
	DC24~36V							DC
Signal Output	4-20mA+Pulse+RS485							RS
	4-20mA+Pulse+HART							HT

Strict Flow Calibration



Adopt Gas Venturi Sonic Nozzle Calibration Device
Regular inspection and verification guarantee accuracy and reliability of the calibration device

Certificates



Thermal gas mass flow meter EX-proof



Thermal gas mass flow meter CE



Enterprise certificates



More than 100 patents

Packing Of Products



Product ready for packing



ECO packing



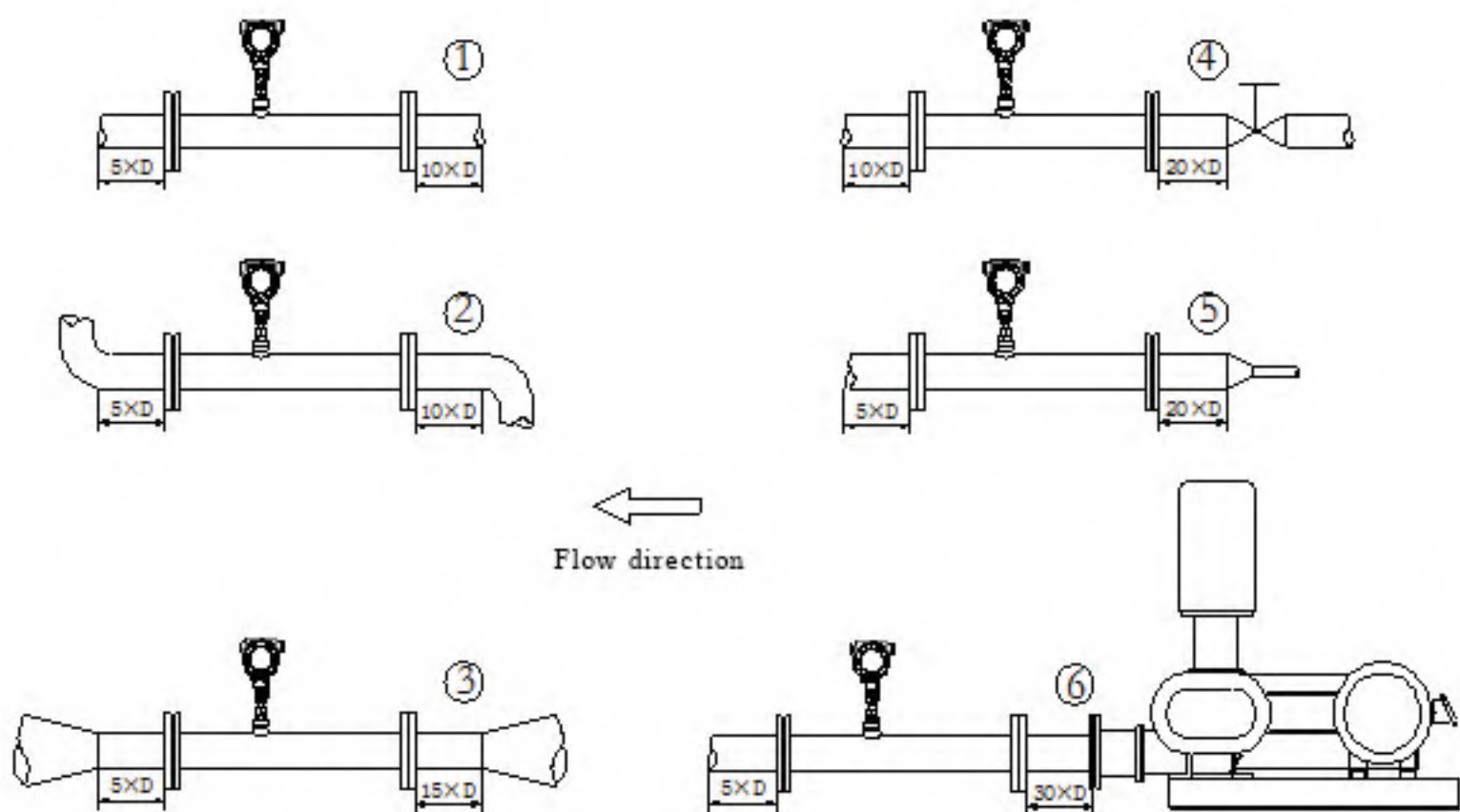
Enter the finished product warehouse and wait for transportation

Products are multi-packaging, shockproof and anti-fall, ensuring be delivered to customers' hands safely.

Thermal mass flow meter installation

Installation location and straight pipe requirements

1. When installing the thermal mass flowmeter, keep away from elbows, obstacles, reducers and valves to ensure a stable flow field. It is required to have a long upper straight pipe. The front straight pipe length is greater than $10D$, and the rear straight pipe length is greater than $5D$.



Installation upstream and downstream straight pipe

2. When the site cannot meet the requirements of the straight pipe section, the gas rectifier can be connected in series to greatly reduce the requirements for the straight pipe section.

Trade Show

Rich experiences in exhibition

