

CTMD

Thermal Mass Flowmeter



OVERVIEW

Operation

CTMD provides high quality In-Line and Insertion Thermal Mass Flow Meters for a wide variety of industrial, commercial, and environmental monitoring needs. Our experienced application engineers, many of whom have worked in the Thermal Mass Flow marketplace since its inception, will assist you with your flow meter application.

Features

- Simple Installation
- High performance
- Bi-directional
- Sensing unit
- Easy installation
- Easy configuration and maintenance
- TFT graphic multicolor display
- Long term stability
- Compact design
- Built-in Datalogger
- No moving parts
- Simple calibration
- Easy adaptation on various applications and processes
- Innovative sensor technology
- Optional, pressure measurement

Application

- Air injection
- Air purging
- Blow molding air
- Blower air
- Drying air flow
- Combustion gas flow
- Vent air flow

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■ OPERATING DATA

Working Pressure	Max. 16 Bar for insertion type Max. 40 Bar for in-line type
Temperature Limit	-40°C...+150°C -40°C...+300°C on request
Turn Down Ratio	150:1
Accuracy	±1,5 % of reading + ±0.3 % of full scale ±1,0 % of span for pressure ±2°C of temperature
Enclosure	IP65 / IP67,IP68 on request
Display	TFT LCD Temperature, pressure, rate and total flow in one screen
Flow Units	m ³ /h, m ³ /min, l/min, l/s, ft/min, cfm, m/s, kg/h, kg/min, g/s, lb/min, lb/h
Pressure	mbar, psi, bar
Temperature	°C, °K
Sliding Fittings	G 1/2" G 3/4"

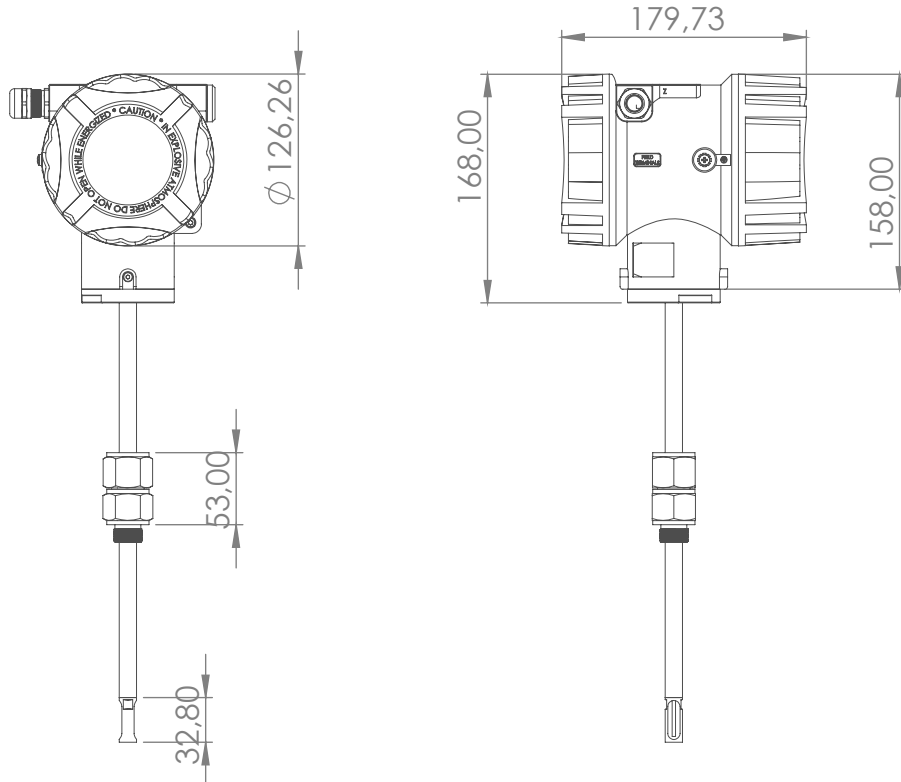
■ MATERIALS

Wetted Parts Stainless steel, plastic, aluminium

■ MEASURING RANGES

Pipe Diameter	DN25-900 mm for insertion type (bigger pipe on request) DN15-300 mm for in line type
Flow Velocity Range	0,6-60 Nm/s 1,0-100 Nm/s 1,2-120 Nm/s 1,5-150 Nm/s

■ TECHNICAL DRAWINGS AND DIMENSIONS



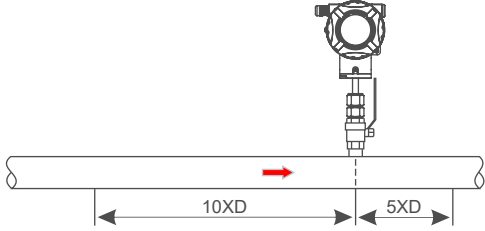
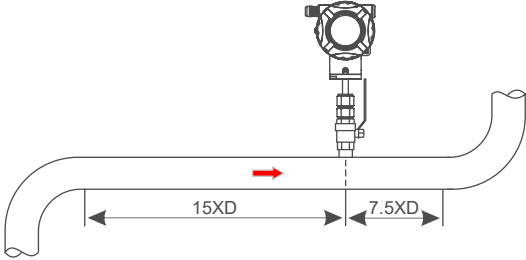
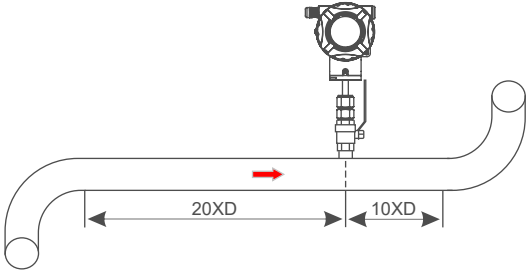
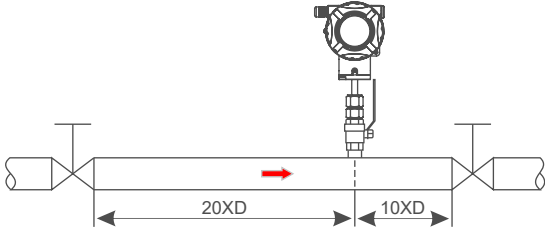
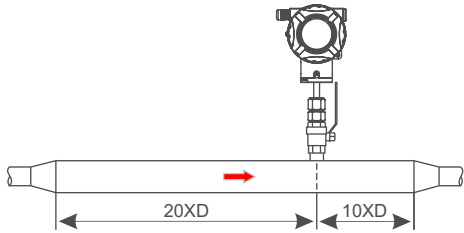
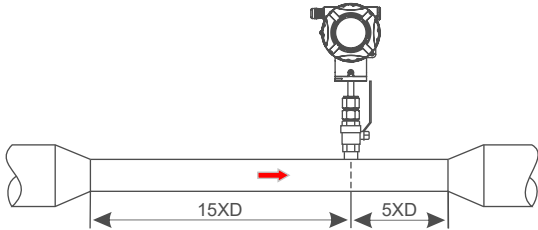
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■ INSTALLATION

Standard	
Curved pipe line in upstream or down stream	
Curved pipe line that may creat turbulence in the upstream or down stream	
There are valves or pressure controller or any other device may cause turbulence in upstream or down stream of the flowmeter	
If the pipeline of the flowmeter is upsized	
If the pipeline of the flowmeter is downsized	

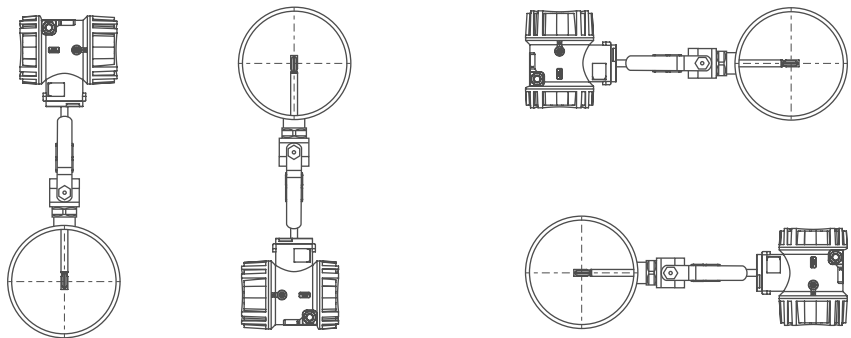
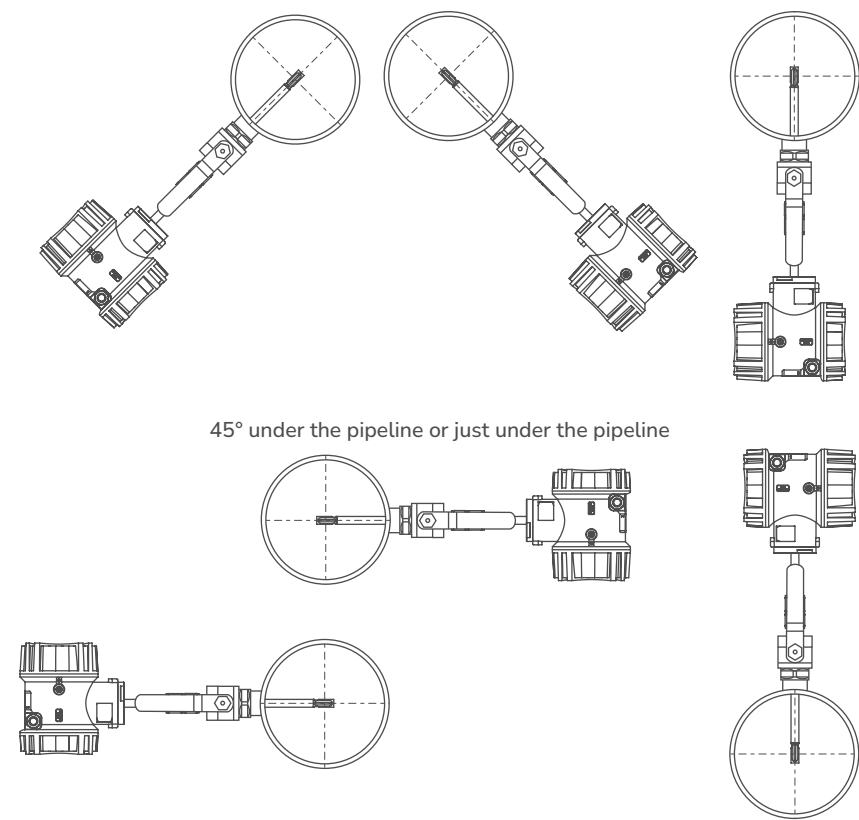
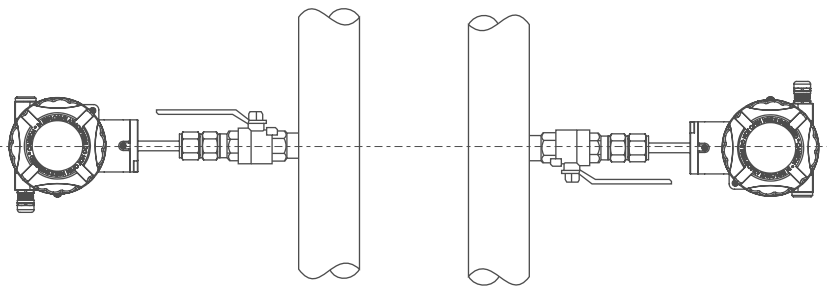
Requirement on straight pipe line

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On a horizontal pipeline, normal air or gas	 Above or under the pipeline Side of the pipeline
On a horizontal pipeline, high humidity air or wet natural gas	 45° under the pipeline or just under the pipeline On the side of the pipe. Do not recommend to install the meter above the pipeline
On a vertical pipeline, when the density of the gas higher than air	

Requirement on Insertion Direction



■ WIRING

Power Supply	24 VDC
Output	Pulse and 4-20 mA, 0-10 VDC
Communication	RS485 Modbus, ethernet, HART on request
Display	Rate and total flow, pressure and temperature
Response Time	1 sec.
Datalogger	24 hour storage (On request)

■ ORDERING

[illegible]