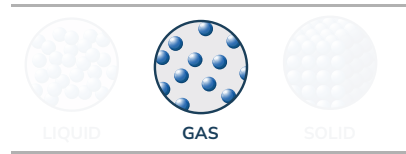


CTMD

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.

Application

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

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 various applications and processes
- Inovating sensor technology
- Optional pressure measurement



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

100:1

Accuracy

±1,5 % of reading + ±0.3 % of full
scale (optional %1 reading)
±1,0 % of span for pressure
±2°C of temperature

Enclosure

IP65 / IP67, IP68 on request TFT

Display

Integral or Remote LCD

Units

Temperature, pressure, rate and total flow
one screen

Flow

m³/h, m³/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"

ATEX Approval

Ex d flame proof

Accessories

DN50 flanged, SS316L hot-tap isolation valve

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

MATERIALS

Wetted Parts

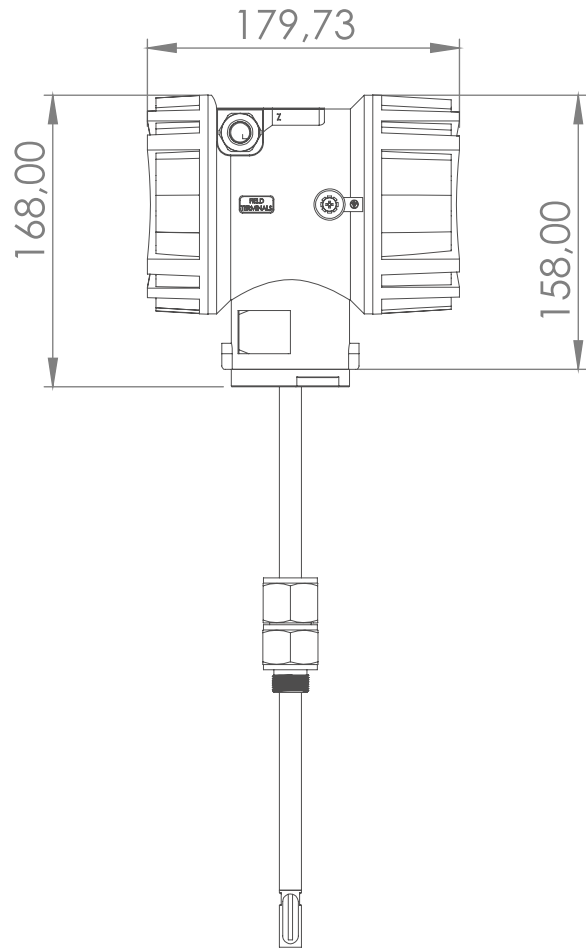
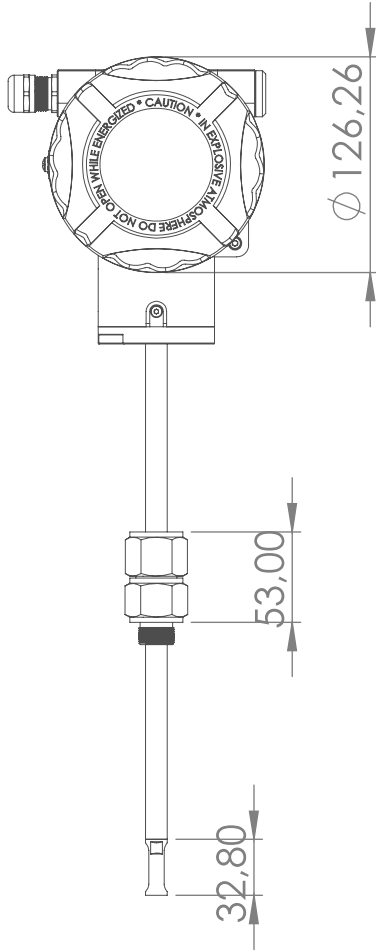
Stainless steel, SS316Ti, Titanium

Housing Material

Plastic, Aluminum



TECHNICAL DRAWINGS AND DIMENSIONS



WIRING

Power Supply

24 VDC

Output

Pulse and 4-20 mA, 0-10 VDC

Communication

RS485 Modbus, ethernet, HART, PROFIBUS PA
on request

Display

Rate and total flow, pressure and temperature

Response Time

1 sec.

Datalogger

24 hour storage (On request)

Cable

Regular or high temperature cable options and
required cable length on request



ORDERING

Model	
CTMD	Thermal mass flowmeter

Design	
IT	Insertion Threaded
IF	Insertion Flangen
IN	Inline

Pipe Size	
XXXX	Please specify as unit is mm

Output	
A	4-20 mA, pulse
B	0-10 VDC, pulse

Communication	
R	RS-485 MODBUS
P	PROFIBUS PA
H	HART
X	Others

Media	
A	Air
N	Nitrogen
O	Oxygen
C	Carbondioxide
D	Natural gas
X	On request

Range Type	
L	Low flow range (0,6-60 Nm/s)
S	Standart flow range (1,0-100 Nm/s)
H	High flow range (1,2-120 Nm/s)
U	Ultra high range (1,5-150 Nm/s)

Enclosure	
65	IP65, Compact
67	IP67, Compact
68	IP68, Remote

Pressure Measurement	
N	None
Y	Yes

Datalogger	
N	None
Y	24 hours stroage

Bi-directional Measurement	
N	None
Y	Yes

Connection	
1	G 1/2"
2	G 3/2"

ATEX Approval	
E	Ex d flame proof
N	None

