Thermal Mass Flow Meter - Outdoor

For clean and dry gases

Key Features

- Flange (DIN), PN16 and PN40 or R thread (ISO-7-1)
- DN15 (1/2") to DN80 (3")
- IP67 rating
- Flow range:
 - o 0.1 to 250 Nm/s
 - o 0.3 to 820 ft/sec
- Accuracy: ±1.5% reading, ±0.3% full scale
- Touch screen display
- Power Supply: 18 to 30 vDC
- Two outputs as standard:
 - o Digital Modbus RTU
 - o Analog 4...20 mA + Pulse
- Measure: standard flow, mass flow, consumption and temperature



About

Inline type, thermal mass flow sensors are perfectly suited for measuring clean, dry compressed air and inert gas systems, where accuracy on smaller pipe sizing is important

Thermal mass technology is independent of pressure and temperature change. With no moving parts, the flow meter has a stable signal, high reliability and long-term measurement accuracy.

The flow meter has digital signal processing, replacing the traditional analog bridge design. This makes the flow meter more accurate and has a wider range (range ratio of 1:2500).

The highly durable IP67 rated, powder-coated Aluminium housing ensures the sensor can withstand the harshest environments.

Applications

- · Manufacturing and industrial use
- Temporary or permanent installation
- Outdoor environments
- Clean, dry compressed air and inert gases
- Gas pressure up to 40 bar (580 psi)
- Pipe Sizes: DN15 to DN80



More Info



Specifications

Meas	surement Range						
Flow Velocity	0.1 to 250 Nm/s						
Gas Temperature	(0.3 to 820 ft/sec) -40 to +150°C						
	-40 to +302°F						
Gas Pressure	0 to 16 bar (232 psi) 0 to 40 bar (580 psi)* *High pressure installer required						
Accuracy							
Flow Accuracy	±(1.5% RD + 0.3% FS)						
Reference Conditions: 20 °C, 1 bar(a) -ISO 1217 (editable)							
The accuracy and response time of the sensor can be affected by the on-site conditions, contaminates in the gas and incorrect installation.							
Working Environment							
Ambient Temperatur	-30 to +70°C -22 to +158°F						
Gas types	Compressed air, nitrogen, oxygen, carbon dioxide and other non-condensable gases						
Gas Quality	Clean and dry gas						
Minimum flow velocit	y 0.1 Nm/s (0.3 ft/sec)						
Power Supply							
Power Requirement	18 to 30V DC/ 5W @ 24V						
Electrical Connection	Terminal Strip						
Electromagnetic Compatibility	Meets IEC 61326-1						
Output							
Analogue Output	4-20 mA (isolated) Pulse output						
Digital Output	Modbus RTU (RS485)						
Output Signals	Flow, Mass flow, Consumption, Temperature						
Full digital signal processing							

Display							
Display	2.0" IPS ultra-wide viewing angle LCD screen with capacitive touch						
Display Options	Integrated Display or Split Display						
Other							
Process Connection	on ISO G1/2" thread						
R Thread (ISO-7-1): DN15 (1/2") DN50 (2") Flange (EN 1092-1): DN15 (1/2") DN80 (3")							
Sampling Rate	> 20 samples per second						
IP Rating	IP67						
Housing Material	Powder-coated Aluminium						
Thermal Mass Sensor Technology (not affected by temperature and pressure)							
Turndown Ratio	Ultra-wide, 1:2500						
Bi-directional	No						
Data Logger	No						
Installation	Permanent or Temporary						
Calibration	Every 2 years						
Annual calibration is required if the sensor is exposed to relative humidity above 85%.							
Warranty	12 months						
HS Code	9026.80.80						

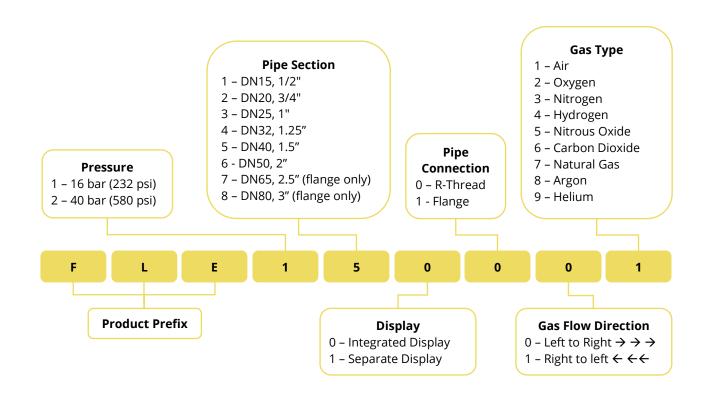


Flow Range

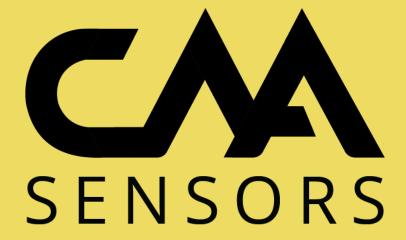
Pipe Size		Flow Range (Nm3/h)		Flow Range (cfm)		
DN	Inches	Connection	Min Flow	Max Flow	Min Flow	Max Flow
15	1/2"	R Thread or Flange	0.06	158	0.04	93
20	3/4"		0.1	282	0.06	166
25	1"		0.2	441	0.1	259
32	1.25"		0.3	723	0.2	425
40	1.5"		0.5	1,131	0.3	665
50	2"		0.7	1,767	0.4	1,040
65	2.5"	Flange only	1.2	2,986	0.7	1,757
80	3"		1.8	4,523	1.1	2,662

How to Order

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