Pitot Tube Flow Meter

For wet and dirty gases

Key Features

- · Option to measure bi-directional flow
- IP65 rating
- Flow range:
 - o 5 to 300 Nm/sec
 - o 17 to 984 ft/sec
- Accuracy: ±1.5% reading, ±0.3% full scale
- Integrated touch screen display
- Power Supply: 18 to 30 vDC
- Two outputs as standard:
 - Digital Modbus RTU
 - Analog 4...20 mA + Pulse
- Measure: standard flow, consumption, pressure and temperature



About

Pitot tube flow meters are ideally suited to wet, dirty and high velocity compressed air and gas systems that contain some level of contamination. This makes pitot tube flow meters ideal for measuring flow, temperature and pressure near the outlet of compressors and other difficult environments.

The extremely sensitive differential pressure measurement allows this sensor to be used over a wide flow range. The patented anti - condensation technology ensures the sensor can be used under 100% saturated conditions.

Applications

- Manufacturing and industrial use
- Temporary or permanent installation
- Gas pressure up to 50 bar (232 psi)
- Pipe Sizes: DN25 to DN600



More Info



Specifications

Measurement Range						
Flow Velocity	5 to 300 Nm/sec 17 to 984 ft/sec					
Gas Temperature	-40 to +150°C -40 to +302°F					
Gas Pressure	0 to 17 bar (247 psi)					
Accuracy						
Flow Accuracy	±(1.5% RD + 0.3% FS)					
Contact us for higher accuracy of ±1% RD						
Reference Conditions: 20 °C, 1 bar(a), ISO 1217 (editable)						
Pressure Accuracy	±0.5% FS					
Temperature Accuracy	ty ±0.5°C					
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 Temperature	-20 to +60°C -4 to +140°F					
Gas types	Dry /moist air and non- corrosive gases					
Gas Quality	Clean and dry gas Wet and dirty gas					
Display & Data Logger						
Display 2.8" IPS ultra-wide vi angle LCD touch sc						

10,000,000 record points

> 20 samples per second

Output						
Analogue Output	4-20 mA (isolated) / Pulse output (cumulative)					
Digital Output	Modbus RTU (RS485)					
Output Signals	Flow, Consumption Pressure, Temperature					
Full digital signal processing						
Power Supply						
Power Requirement - Measurements	18 to 30V DC/6.5W @ 24V					
Power Requirement – Start up phase	18 to 30V DC/24W @ 24V					
Electrical Connection	2 × 5 pin M12, Female					
Electromagnetic Compatibility	Meets IEC 61326-1					
	Other					
Process Connection	ISO G1/2" thread					
Pipe Size	DN25 to DN250 DN25 to DN600					
Shaft Lengths	250 mm or 400 mm 9.8" or 15.7"					
IP Rating	IP65					
Sensor Technology	Pitot Tube					
Turndown Ratio	1:60					
Bi-directional	Optional					
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					



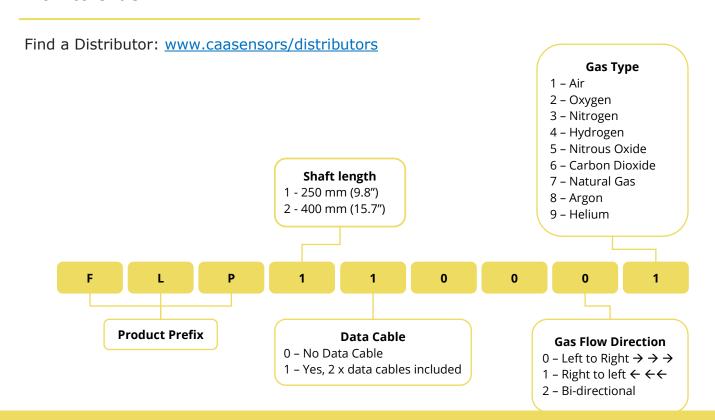
Data Logging

Sampling Rate

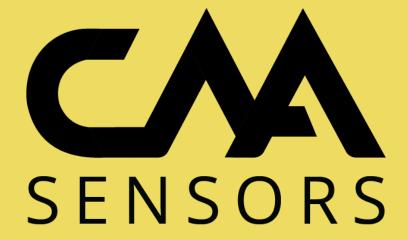
Flow Range

Pipe Size			Flow Range (Nm3/h)		Flow Range (cfm)	
Inches	DN	ID (mm)	Min Flow	Max Flow	Min Flow	Max Flow
1	25	25	8.8	530	5	312
1.25	32	32	14.5	868	9	511
1.5	40	40	22.6	1,357	13	798
2	50	50	35.3	2,120	21	1,247
2.25	65	65	59.7	3,583	35	2,108
3	80	80	90.5	5,428	53	3,193
4	100	100	141.4	8,482	83	4,990
5	125	125	220.9	13,253	130	7,797
6	150	150	318.1	19,085	187	11,228
8	200	200	565.5	33,929	333	19,962
10	250	250	883.6	53,014	520	31,190
12	300	300	1,272.3	76,340	749	44,913

How to Order







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