Vortex Flow Meter

For gas and steam

Key Features

- Vortex flow meter suitable for gas and steam
- IP65 rating
- Flow range:
 - 1.5 to 300 Nm/s
 - o 5 to 931 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
 - o Analog 4...20 mA + Pulse
- Measure: standard flow, consumption, pressure and temperature

About

Vortex flow meters are perfectly suited for measuring flow and consumption of inert gases and steam, no matter how heavily contaminated.

With built-in pressure and temperature sensors, all parameters of your gas or steam system are monitored in one unit, saving you install and maintenance costs.

The turndown ratio of 1:53 goes well beyond traditional Vortex flowmeters.

An all-welded construction means the flow meter is resistant to corrosion, high pressure and temperature. Full digital signal processing for higher precision and better stability



Applications

- Manufacturing and industrial use
- Temporary or permanent installation
- Outdoor environments
- Gas pressure up to 16 bar (232 psi)
- Steam pressure up to 63 bar (913 psi)
- Pipe Sizes: DN15 to DN300



More Info



Specifications

Measurement Range								
Flow Velocity		1.5 to 300 Nm/s 5 to 984 ft/sec						
	Gas	Steam						
Gas Temperature	-40°C to +150°C -40°F to +302°F	-40°C to +280°C -40°F to +536°F						
	Gas	Steam						
Gas Pressure	0 to 16 bar 0 to 232 psi	0 to 63 bar 0 to 913 psi						
Accuracy								
Flow Accuracy	±(1.5% RD + 0.3% FS)							
Contact us for higher accuracy of ±1% RD								
Repeatability	lity ±0.2% RD							
Reference Conditions: 20 °C, 1 bar(a), ISO 1217 (editable)								
Pressure Accuracy ±0.5% FS								
Temperature Accuracy ± 0.5 °C (± 1.0 FS @ > 100 °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 Temperatu	-40 to +85°C mbient Temperature -40°F to +185°F							
Relative Humidity	elative Humidity 0 to 95% RH							
Gas types	-	Dry /moist air and non-corrosive gases						
Gas Quality		Clean and dry gas Wet and dirty gas						
Display & Data Logger								
Display		8" IPS ultra-wide viewing angle LCD touch screen						
Data Logging	No							

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/10W @ 24V						
Electrical Connection	1 × 5 pin M12, Female						
Electromagnetic Compatibility	Meets IEC 61326-1						
Other							
Process Connection	Flange						
Pipe Size	DN15 to DN300						
IP Rating	IP65						
Sensor Technology	Karman vortex principle						
Turndown Ratio	1:53						
Bi-directional	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						

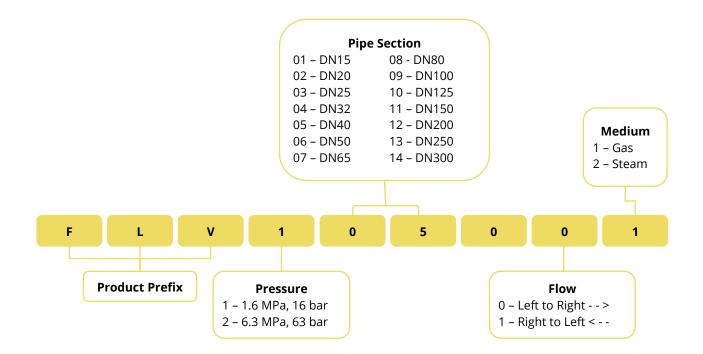


Flow Range

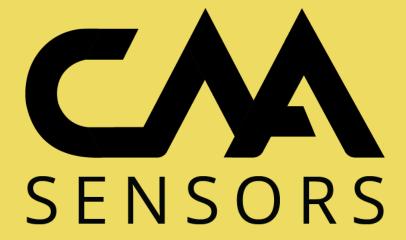
Vortex Flow Meter									
Pipe Size		Flow Rate	Flow Range (Nm3/h)		Flow Range (cfm)				
Inches	DN	m/s	Min Flow	Max Flow	Min Flow	Max Flow			
1/2"	15	5.5 – 80	1.0	50.9	0.6	30.0			
3/4"	20	5.0 – 80	3.1	90.4	1.0	53.2			
1"	25	4.0 – 80	8.8	530	5	312			
1.25"	32	3.0 – 80	14.5	868	9	511			
1.5"	40	2.0 – 80	22.6	1,357	13	798			
2"	50	1.5 - 80	35.3	2,120	21	1,247			
2.5"	65	1.5 - 80	59.7	3,583	35	2,108			
3"	80	1.5 - 80	90.5	5,428	53	3,193			
4"	100	1.5 - 80	141.4	8,482	83	4,990			
5"	125	1.5 - 80	220.9	13,253	130	7,797			
6"	150	1.5 - 80	318.1	19,085	187	11,228			
8"	200	1.5 - 80	565.5	33,929	333	19,962			
10"	250	1.5 - 80	883.6	53,014	520	31,190			
12"	300	1.5 - 80	1,272.3	76,340	749	44,913			

How to Order

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