

Features

Inline type sensor

Ideal for wet and dirty gases

Flow range of:

- 1.5 to 300 Nm/s
- 5 to 931 ft/sec

Accuracy: ±1.5% reading, ±0.3% full scale

Ultra high sensitivity vortex probe

Low pressure drop minimises effects on gas flow

Stable signals

Measure: standard flow, consumption, pressure and temperature

Integrated touch screen display with data logging

Two outputs as standard (i) Digital - Modbus RTU (ii) Analog - 4...20 mA + Pulse

Options:

- (i) gas or steam
- (ii) Multiple pipe sizes

Flow Meter - Vortex

Insertion type sensor - ideal for wet and dirty gases



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

Benefits of flow monitoring:

- Improve system efficiency
- Reduce system maintenance
- Reduce operating and energy costs
- Increase system understanding and operation
- Identify changes in system performance
- Identify non-productive air demand and leakage
- Identify peak and average demand





Specifications

Data Logging

Measurement Range		Output			
Flow Velocity	1.5 to 300 Nm/s 5 to 984 ft/sec	Analogue Output	4-20 mA (isolated) / Pulse output (cumulative)		
Gas Temperature	Gas: -40°C to +150°C (-40°F to +302°F)	Digital Output	Modbus RTU (RS485)		
	Steam: -40°C to +280°C (-40°F to +536°F)	Output Signals	Flow, Consumption Pressure, Temperature		
Gas Pressure	Gas: 0 to 16 bar (232 psi) Steam: 0 to 63 bar (913 psi)	Full digital signal processing			
	Accuracy	Power Supply			
Flow Accuracy	±(1.5% RD + 0.3% FS)	Power Requirement - Measurements	18 to 30V DC/10W @ 24V		
Contact us for higher accuracy of ±1% RD		Electrical Connection	1 × 5 pin M12, Female		
Repeatability	±0.2% RD	Electromagnetic Compatibility	Meets IEC 61326-1		
Reference Conditions: 20 °C, 1 bar(a), ISO 1217 (editable)		Other			
Pressure Accuracy	±0.5% FS	Process Connection	Flange		
Temperature Accurac	y ±0.5 °C (±1.0 FS @ > 100 °C)	Pipe Size	DN15 to DN300		
affected by the on-site	sponse time of the sensor can be conditions, contaminates in the gas correct installation.	IP Rating	IP65		
Working Environment		Sensor Technology	Karman vortex principle		
Ambient Temperature	-40 to +85°C	Turndown Ratio	1:53		
	-40°F to +185°F	Bi-directional	No		
Relative Humidity	0 to 95% RH Dry /moist air and non-corrosive	Installation	Permanent or Temporary		
Gas types	gases	 Calibration	Every 2 years		
Gas Quality	Clean and dry gas Wet and dirty gas		Annual calibration is required if the sensor is exposed to relative humidity above 85%.		
Display & Data Logger		Warranty	12 months		
Display	2.8" IPS ultra-wide viewing angle LCD touch screen		12 11011013		



No

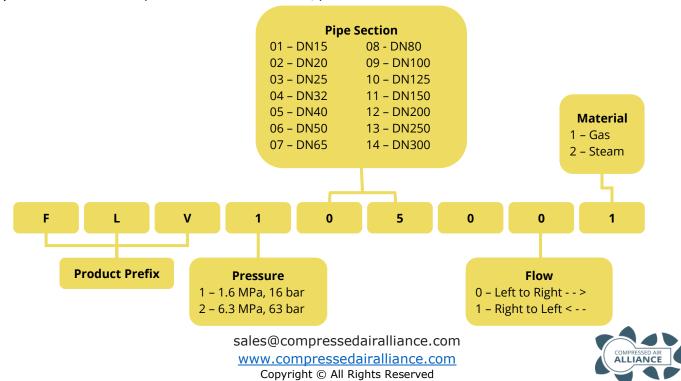


Flow Range

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

Buy online: www.compressedairalliance.com/products





Flow Meter Product Range



Pitot Tube Flow Meter

Ideal for wet, dirty and high velocity gases. Easy to install under pressure through a 1/2" ball valve

Flow Range

5 to 300 Nm/sec (17 to 984 ft/sec) Min Flow Velocity: 5 Nm/s (17 ft/sec)

Pressure Range 0 to 16 bar (232psi)



Optional

Gas Quality

Clean, dry, wet or dirty gas Can be installed on the outlet of compressors.

Outputs

Modbus & 4-20mA

Pipe Size

DN25 to DN600

Thermal Mass - Insertion Style

Easy to install under pressure through a 1/2" ball valve

Flow Range

0.1 to 250 Nm/sec (0.3 to 820 ft/sec)

Pressure Range

0 to 50 bar (725psi)

Bi-directional

No

Gas Quality

Clean dry gas

Must be installed after a dryer

Outputs

Modbus & 4-20mA

Pipe Size

DN20 to DN600

Thermal Mass - Inline Style

Ideal for permanent installations or where shutting down the system to install the sensor is not an issue

Flow Range

0.1 to 250 Nm/sec (0.3 to 820 ft/sec)

Pressure Range

0 to 40 bar (580psi)

Bi-directional

No

Gas Quality

Clean dry gas

Must be installed after a dryer

Outputs

Modbus & 4-20mA

Pipe Size

DN15 to DN50



Vortex Flow Meter

For use in gas and steam systems

Flow Range

1.5 to 80 m/s (5 to 24 ft/sec) Min Flow Velocity: 1.5 Nm/s (4.9 ft/sec)

Pressure Range

0 to 63 bar (913psi)

Bi-directional

Gas Quality

Clean, dry, wet or dirty gas / steam

Outputs

Modbus & 4-20mA

Pipe Size

DN15 to DN300

