

Clamp-on Ultrasonic Flow Meter

For industrial water, sea water, and other electrically conductive liquids

Key Features

- Pipe Size: DN6 (1/8") to DN100 (4")
- Accuracy: $\pm 2\%$
- Two outputs as standard:
 - Digital - Modbus and
 - Analog - 4-20mA
- Power Supply: 24vDC
- Measure: Real-time flow, Accumulated flow, Flow velocity and Pipe Temperature
- IP54 rating



About

Compressed Air Alliance's clamp-on ultrasonic flow meter is specially designed for small to medium sized pipe diameters. Fast and easy to install in less than 3 minutes.

The ultrasonic flow meter sends multiple signals per second which provides accurate flow rate measurements in full pipes. When the ultrasonic signal is transmitted and received through flowing liquid, there will be different upstream and downstream values, which can be used to calculate flow and velocity.

With no moving parts and no pressure loss the flow meter provides long lasting performance. These flow meters are incredibly durable and made for most industrial environments.

Applications

- Manufacturing and industrial use
- Industrial and domestic water, sea water heating and cooling water, diesel oil, alcohol
- Permanent or temporary measurement
- Pipe materials: PVC, Stainless Steel, Carbon Steel, Copper
- Min flow velocity of 0.1m/s (0.328 ft/s)



Specifications



Medium

- Liquid Medium
- Industrial and domestic water
 - Sea water
 - Heating and cooling water
 - Diesel oil
 - Alcohol
 - Other liquids available on request

Measurement Range

Measurement Principal	Ultrasonic
Flow Range	0.1m/s to 5m/s 0.328ft/s to 16ft/s
Min flow velocity	0.1m/s (0.328 ft/s)
Liquid Temperature	0°C to +50°C 32°F to +122°F

Accuracy

Measurement Accuracy	±2.0% (±0.3m/s ~ 5.0m/s)
Repeatability	0.80%
Response Time	50ms

Power Supply

Power Requirement	24VDC@3W
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Display and Data Logging

Display	In-built 2.4" LCD (320 x 240 IPS)
Data Logging	Up to 10 years of accumulated data can be saved

Output

Outputs	4-20 mA Modbus RTU (RS485)
Alarm	OCT upper and lower limit alarm output, pulse output, relay
Connection	M12

Working Environment

Ambient / working temperature	-10 to +55°C -22 to +158°F
Viscosity	< 300CST (mm²/s)
Ambient Temperature	-10°C to +50°C 14°F to +122°F

Other

Pipe Diameters	DN6 -DN100 1/8" to 4"
Pipe Materials	Stainless steel pipe, carbon steel pipe, copper pipe, plastic pipe
Mechanical Connection	Clamp-on
IP Rating	IP54
Casing	Aluminium alloy
Cable Length	2m (6.6 ft) (contact us for longer cables)
Warranty	12 months

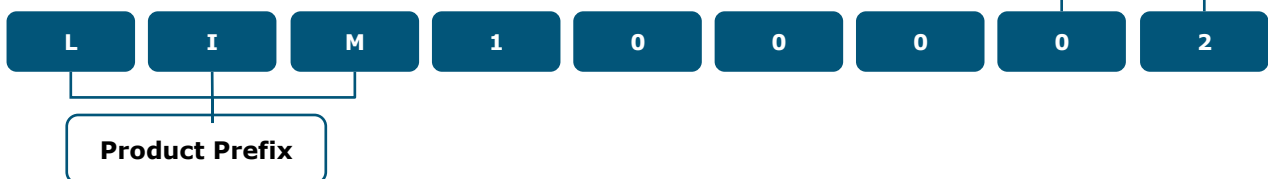
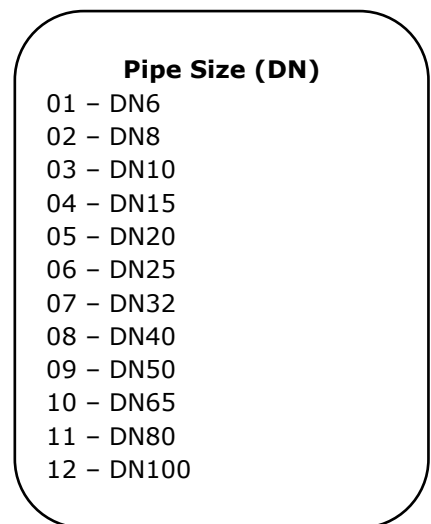


Flow Range

DN	Pipe Size		Flow Range (m ³ /hr)		Flow Range (L/min)	
	OD (mm)	Inches	Min	Max	Min	Max
6	9.53	1/8"	0.02	0.7	0.4	12
8	12.7	1/4"	0.05	1.7	0.9	28
10	15	3/8"	0.09	3.0	1.5	49
15	20	1/2"	0.06	3.2	1.1	53
20	25	3/4"	0.11	5.7	1.9	94
25	32	1"	0.18	8.8	2.9	147
32	40	1.25"	0.29	14	4.8	241
40	50	1.5"	0.45	23	7.5	377
50	63	2"	0.71	35	12	589
65	75	2.5"	1.2	60	20	995
80	90	3"	1.8	90	30	1,508
100	110	4"	2.8	141	47	2,356

How to Order

Buy online: www.compressedairalliance.com/products



Liquid Flow Meter Product Range



Electromagnetic Flow Meter

Ideal for industrial water, waste water and other electrically conductive fluids

Flow Range

Min Flow Velocity: 5 m/s (17 ft/sec)

Power

24vDC

Bi-directional

Yes

Accuracy

±0.5%

Outputs

Modbus & 4-20mA

Pipe Size

DN15 to DN150



Clamp-On Ultrasonic Flow Meter

Fast and easy to install. Clean liquids

Flow Range

0.1m/s to 5.0m/s (0.328 ft/s to 16ft/s)

Min Flow Velocity: 0.1m/s (0.328 ft/s)

Power

24vDC

Bi-directional

No

Accuracy

±2%

Outputs

Modbus & 4-20mA

Pipe Size

DN6 to DN100



Wall-mount Ultrasonic Flow Meter

Ideal for industrial water, waste water and other clean liquids

Flow Range

0.01m/s to 12m/s (0.03 ft/s to 40ft/s)

Min Flow Velocity: 0.1m/s (0.328 ft/s)

Power

24vDC

Bi-directional

No

Accuracy

±0.5%

Outputs

Modbus & 4-20mA

Pipe Size

DN25 to DN5000
