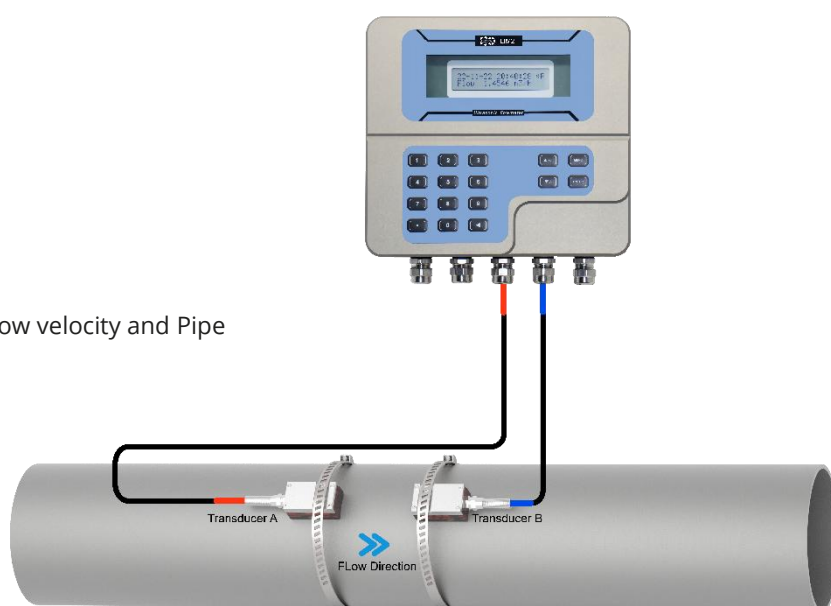# Ultrasonic Flow Meter

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

Key Features

- Pipe Size: DN25 (1") to DN5000 (200")
- Accuracy: ±0.5%
- Two outputs as standard:
  - Digital - Modbus and
  - Analog - 4-20mA
- Power Supply: 24vDC
- Measure: Real-time flow, Accumulated flow, Flow velocity and Pipe Temperature
- IP65 rating

About

Compressed Air Alliance's ultrasonic flow meter is specially designed for medium to large pipe diameters.

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	0.01m/s to 12m/s 0.03 ft/s to 40ft/s
Min flow velocity	0.1m/s (0.328 ft/s)
Liquid Temperature	-40°C to +120°C -40°F to +248°F

Accuracy	
Measurement Accuracy	±0.5% of measured value
Repeatability	0.80%
Linearity	±0.5%

Power Supply	
Power Requirement	24VDC@3W

Display and Data Logging	
Display	2 line (20×2) lattice alphanumeric, backlit LCD
Data Logging	2G SD card data logging, max. 512 days data

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

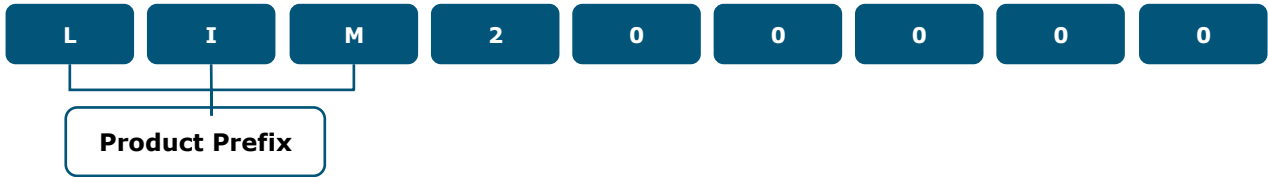| Working Environment	
Ambient Temperature • Display • Transducers	-40°C to +60°C (-40°F to +122°F) -40°C to +120°C (-40°F to +248°F)

Other	
Pipe Diameters	DN25 -DN5000 1" to 200"
Pipe Materials	Stainless steel pipe, carbon steel pipe, copper pipe, plastic pipe
Mechanical Connection	Clamp-on
IP Rating • Display • Clamp-on Transducers	IP65 IP68
Casing - Display	Die-cast aluminium machined enclosure
Weight • Display • Clamp-on Transducers	2.9kg (6.4 lb) 1.2kg (2.64 lb)
Cable Length	10m (33 ft) (contact us for longer cables)
Warranty	12 months

How to Order

Buy online: www.compressedairalliance.com/products

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Product Prefix

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