

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")
- Flow Range:
 - 0.1m/s to 5m/s
 - 0.328ft/s to 16ft/s
- 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

CAA Sensor'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 without needing to penetrate the pipework.

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)



More Info

Specifications

Medium	
Liquid Medium	<ul style="list-style-type: none"> • 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
Display and Data Logging	
Display	In-built 2.4" LCD (320 x 240 IPS)



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, carbon steel, copper, plastic
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

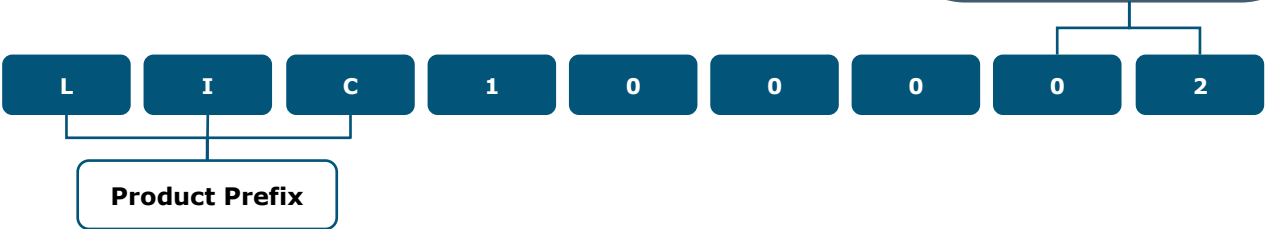
Pipe Size			Flow Range (m³/hr)		Flow Range (L/min)	
DN	OD (mm)	Inches	Min	Max	Min	Max
6	9.53	1/8"	0.02	0.7	0.4	12
8	12.7	1/4"	0.05	1.7	0.9	28
10	15	3/8"	0.09	3.0	1.5	49
15	20	1/2"	0.06	3.2	1.1	53
20	25	3/4"	0.11	5.7	1.9	94
25	32	1"	0.18	8.8	2.9	147
32	40	1.25"	0.29	14	4.8	241
40	50	1.5"	0.45	23	7.5	377
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

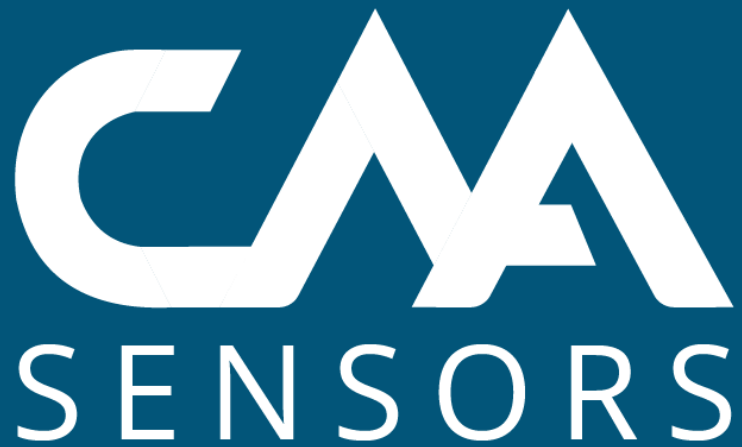
How to Order

Find a Distributor: www.caasensors.com/distributors

Pipe Size (DN)

01 – DN6
02 – DN8
03 – DN10
04 – DN15
05 – DN20
06 – DN25
07 – DN32
08 – DN40
09 – DN50
10 – DN65
11 – DN80
12 – DN100





CAA Sensors Pty Ltd

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Find a Distributor: www.caasensors.com/distributors