Electromagnetic Flow Meter

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

Key Features

- Bi-directional - can measure flow in the forward and reverse directions
- Pipe Size: DN15 to DN150
- 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 Mass flow
- Unaffected by temperature, pressure or density of the liquid
- IP65 rating

About

CAA Sensor's electromagnetic flow meter has no moving parts, rotating gears, turbines or bearings. It relies on two electrodes to measure the density of the magnetic field that results from an electrically conductive fluid, such as water, flowing through a pipe.

Electromagnetic flow meters can measure fluids containing solid contamination such as slurries, sludges and some chemicals. These flow meters provide real time flow rates, total volume, velocity and mass flow in a single unit with both Modbus RTU and 4-20mA outputs. The Bi-Directional ability allows the flow directions to be detected and recorded separately.

These flow meters are incredibly durable and made for most industrial environments.

Applications

- Manufacturing and industrial use
- Electrically conductive fluids
- Permanent measurement
- Min flow velocity of 0.5m/s

More Info

CAA SENSORS

sales@caasensors.com
www.caasensors.com

Specifications

Medium	
Liquid Medium	• Industrial and Domestic Water • Sewage • Salt and Sea water • Non-Corrosive waste-water • Acetic and Nitric Acid • Potassium, Sodium, Ammonium and Calcium Hydroxides • Aqua Regia • Other liquids available on request

Measurement Range	
Measurement Principal	Faraday's law of electromagnetic induction
Min flow velocity	0.5m/s (1.6 ft/sec)
Medium conductivity	>50us/cm
Medium Temperature Range	-20°C to +100°C -4°F to 212°F

Accuracy	
Measurement Accuracy	
• Flow speed > 1m/s	±0.5%
• Flow speed < 1m/s	±0.5% ±2mm/s
Repetitiveness	0.15%
Maximum Temperature Measurement Error	±0.1°C

Power Supply	
Power Requirement	24 VDC Max 15VA

Output	
Outputs	4-20 mA Modbus RTU (RS485)

Working Environment	
Ambient / working temperature	-10°C to +55°C 14°F to +158°F
Rated Pressure	0 - 16bar 0 - 232psi

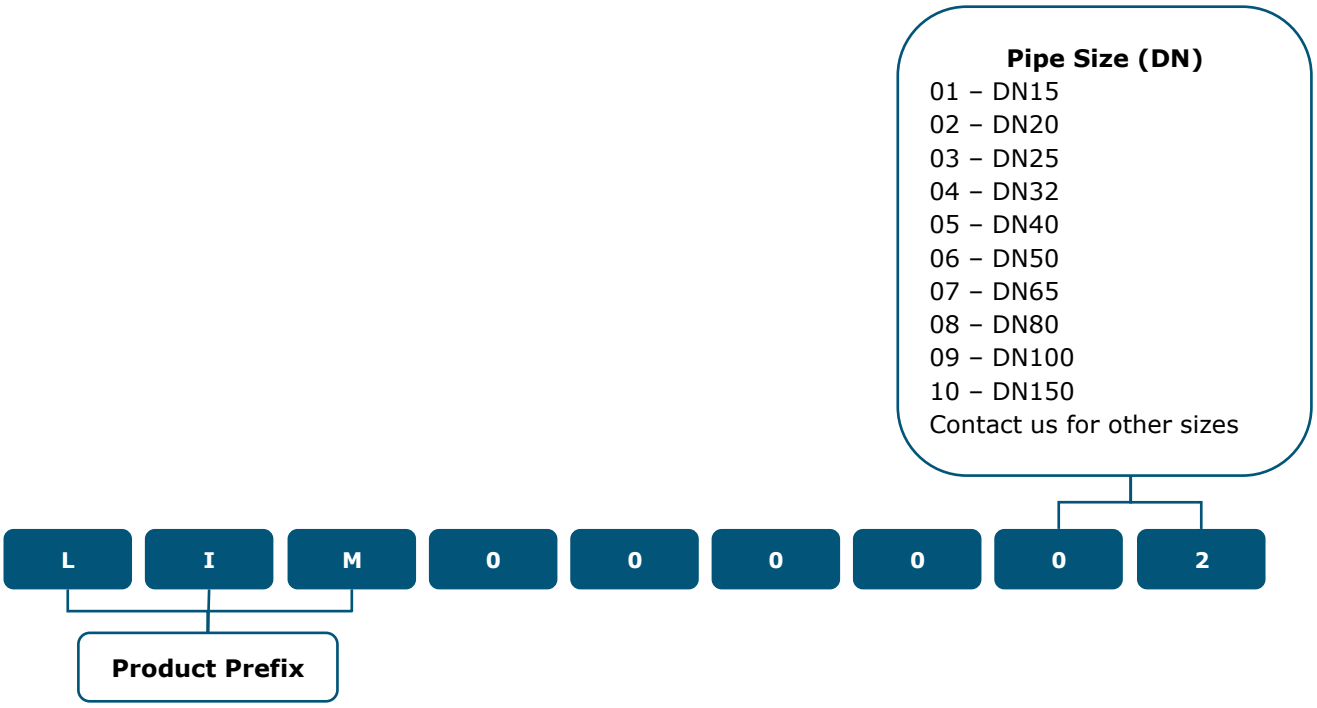
Other	
Pipe Diameters	DN15-DN150 Other sizes available on request
Flange Connection	DIN
Display	In-built Monochrome LCD
IP Rating	IP65
Casing	304 Stainless Steel
Electrode	Titanium
Liner	PTFE
Bi-directional	Yes
Warranty	12 months

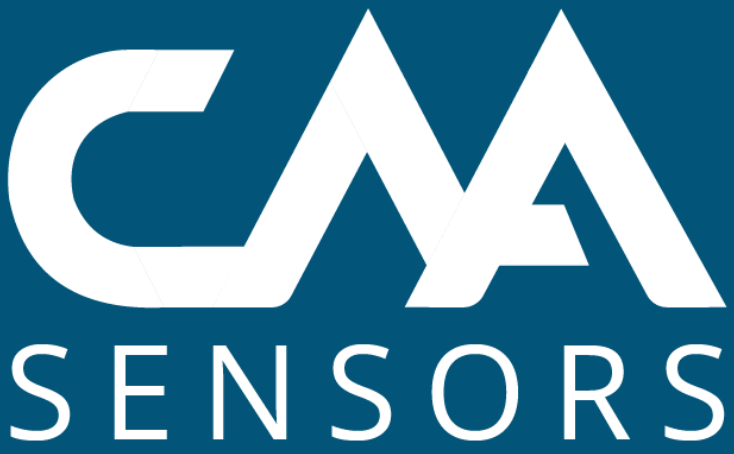
Flow Range

Pipe Size			Flow Range (m^3/hr)		Flow Range (gpm)	
DN	ID (mm)	Inches	Min	Max	Min	Max
15	15	1/2"	0.4	4.0	1.8	17.6
20	20	3/4"	0.8	8.0	3.5	35.2
25	25	1”	1.2	12.0	5.3	52.8
32	32	1.25”	2.0	20.0	8.8	88.0
40	40	1.5”	3.0	30.0	13.2	132
50	50	2”	5.0	50.0	22	220
65	65	2.5”	8.0	80.0	35.2	352
80	80	3”	12.0	120.0	52.8	528
100	100	4”	20.0	200.0	88.0	880
150	150	6”	32.0	320.0	140.8	1408

How to Order

Find a Distributor: www.caasensors/distributors





CAA Sensors Pty Ltd

Head Office: Sydney, Australia

Email: sales@caasensors.com

Website: www.caasensors.com

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