

ASIONIC 200 CF

CLAMP ON TYPE ULTRASONIC FLOW METER

Features

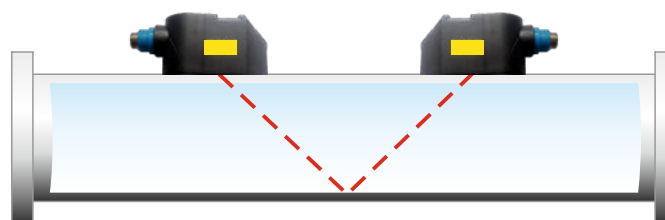
- Ultrasonic Measurement using Transit Time Technology
- Easy installation, No need to cut pipe or stop flow
- External transducers do not require periodic cleaning
- No pressure drop or energy loss
- Bi-directional flow operation
- Suitable for wide range of pipe diameters
- Portable / fixed Installation options
- Small in size and weight
- Inbuilt data logging



Description

ASIONIC® 200 CF Clamp-On Ultrasonic flow meters measure liquids in industrial applications. Because the sensor is clamped on to the outside of the pipe, it is immune to the process compatibility concerns of an in-line flow metering technology. The clamp-on ultrasonic flow meter operates using transit time measurement. By measuring the time it takes for sonic signal to travel a known distance with the flow stream and another signal travelling against the flow stream, it determines the velocity of the fluid being measured. With the sonic properties of the fluid and the pipe material factored in, users get an extremely repeatable accuracy on the volumetric flow rate being measured. The product is ideal for users looking for a process measurement device that is easy to install and can maintain flow measurement for clean liquids. ASIONIC® 200 CF clamp-on ultrasonic flow meters can be installed without stopping the process or having cut into the pipe line. It is ideal for process measurement in applications where users previously had not installed an in-line flow meter and for applications where large line sizes or exotic materials are required for in-line measurement technologies.

Sensor Mounting Methods



V - Mount

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Technical Specifications

Performance Characteristics	
Media	Sonically Conductive Liquids
Sensing Method	Differential Transit Type in direct or reflect mode
Media	Sonically Conductive Liquids
Viscosity	200 cP maximum
Turbidity	Smaller than 10,000ppm (mg/ltr) with a low level of air bubble content
Flow Velocity Range	-12 m/s to +12 m/s (40 ft/s)
Power Supply	24V DC
Accuracy*	< $\pm 2\%$ of F. S. $\pm 5\text{mm/sec}$ for Velocity Range 0.3 m/s to 6 or 12 m/s
Line Size	50NB to 100NB, 125NB to 250NB, for higher line size consult factory
Acoustic Paths	Single Path
Display	LCD Display
Communication Interface	RS485
Data Logger	Internal Data Logging
Ambient Conditions	Temperature -20°C to 70°C / Humidity 5 to 95% Non Condensing
Operating Temperature - Transducer	-40°C to 80°C (Standard), -40°C to 150°C (Optional)
Pipe Size	50 NB (2") to 250 NB (10") , Wall thickness <10mm
Operating Temperature	-10 °C to +60 °C (14 °F to 140 °F)
Pipe Material Compatibility	MS / SS / Cast Iron / Plastic
Outputs	4 to 20 mA, Pulse (Open Collector)
Humidity	Up to 99% Relative Humidity (Non Condensing)
Transmitter Mounting	Pipe Mounted / Wall Mounted
Electronic Protection Class	Field Mount Weather Proof IP-67
Sensor Cable	Encapsulated Design Standard Cable Length : 5 mtr.
Sensor Mounting Methods	'V' method

Configuration Details



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Ordering Information for Flow Transmitter

Sample Order Code : ASIONIC 200 CF - TX-A1-B1

Parameter		Code	Description	Parameter		Code	Description
A	Electrical Output 2 (Pulse)	A1	Pulse (Open Collector)	B	Communication Output 1	B1	RS485 (MODBUS RTU)
		AX	NA			BX	NA

Ordering Information for Sensor

Sample Order Code : ASIONIC 200 CF- SR1

				Note :
Parameter	Code	Description		
SR	Sensor Assembly	SR1	Small 50 to 100 NB	
		SR2	Medium 125 to 250 NB	▪ Due to our continuous product revisions, design specification & model numbers are subject to change without notice. ▪ To be used for industrial applications. ▪ Accuracy defined at Lab Conditions. ▪ For other requirement please consult factory. ▪ This product is meant for laboratory/Process application only and not for custody transfer application.



Office & Manufacturing Unit

Plot No. 84, Tiny Industrial Estate, Kondhwa Budruk, Pune - 411 048, Maharashtra, India.

+91-20-26931476 / +91-9922442183 sales@electronet.co.in www.electronet.co.in

ELECTRONET FLOWMETERS LLP

ASSOCIATE COMPANY OF ELECTRONET EQUIPMENTS PVT. LTD.