ASIONIC 200C

CLAMP ON TYPE ULTRASONIC FLOW METER

ELECTRONET

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® - 200C Clamp-On Ultrasonic flow meters measure the liquid flow rate in industrial applications. It is immune to the process compatibility concerns of an in-line flow metering technology because the sensor is clamped on to the outside of the pipe. The clamp-on ultrasonic flow meter operates using transit time measurement. By measuring the time taken by the 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. It ensures additional economy and the ability to compare or contrast two flow streams because the transmitter can process the signal of one or two sensors. 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® - 200C 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.

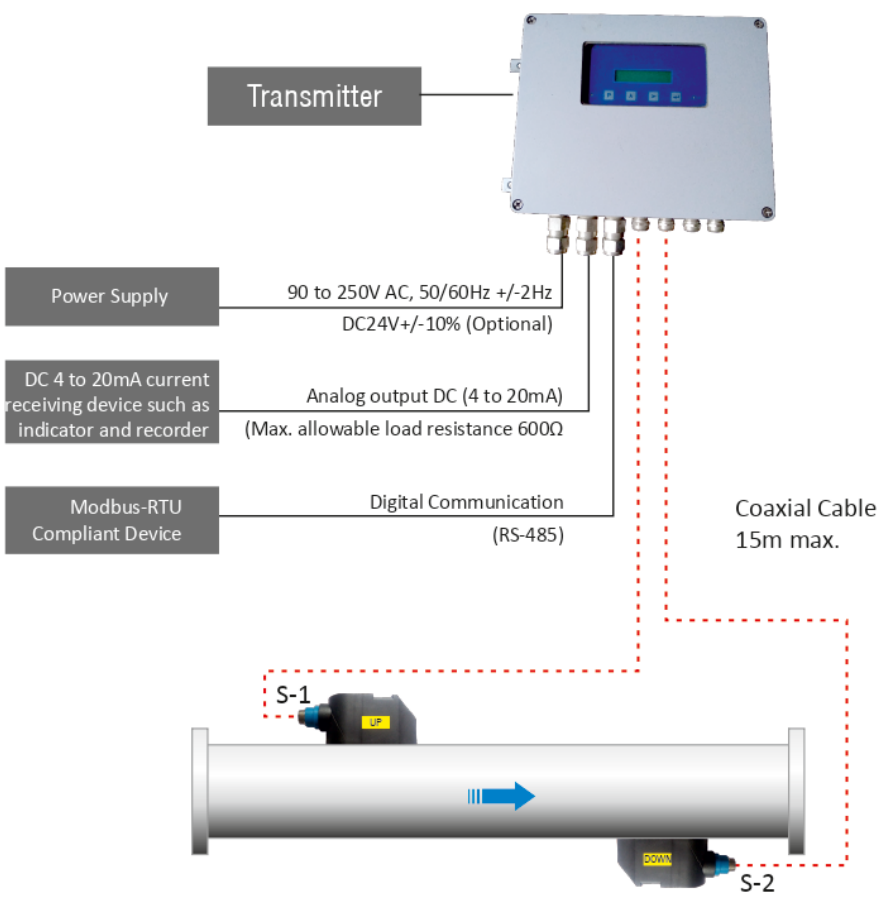
Technical Specifications

Performance Characteristics	
Pipe Line Size	50 NB to 2000 NB
Sensing Method	Differential Transit Type in direct or reflect mode
Media	Sonically Conductive Liquids
Viscosity	200 cP maximum
Turbidity	Smaller than 10,000 ppm (mg/ltr) with a low level of air bubble content
Power Supply	1) 90 - 250V AC 2) 24V DC (+/- 10%) 3) Solar Powered 24V DC
Accuracy	< ± 2% of F. S. ± 5mm /sec for Velocity Range 0.3 m/s to 6 or 12 m/s
Acoustic Paths	Single
Display	LCD Display
Communication Interface	RS485 MODBUS RTU
Data Logger	Internal Data Logging
Ambient Conditions	Temperature -20°C to 75°C / Humidity 5 to 95% Non Condensing

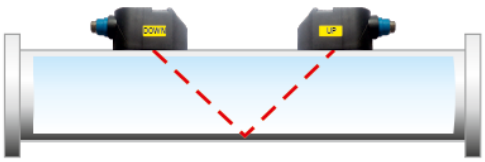
Technical Specifications

Operating Temperature - Transducer	-20°C to 80°C (Standard), -20°C to 150°C (Optional)
Pipe Size	50 mm (2") to 2000mm (80"), Wall thickness <20mm
Pipe Material Compatibility	MS / SS / Cast Iron / Plastic
Analog Output	Isolated 4 to 20 mA, 600 Ω load
Humidity	Up to 99% Relative Humidity (Non Condensing)
MOC Electronics Enclosure	Cast-Aluminium / ABS Plastic / SS316
Transmitter Mounting	Wall Mounted
Electronic Protection Class	Field Mount Weather Proof IP-67, DIN Standard (IP 54)
Sensor Cable	Encapsulated Design Standard Cable Length : 9 mtr. (Optional upto 15 mtr.)
Sensor Mounting Methods	1) 'V' method 2) 'Z' method
Sensor Type	Small (50NB-100NB), Medium (125NB-300NB), Large (350NB-2000NB)
Certification	CE

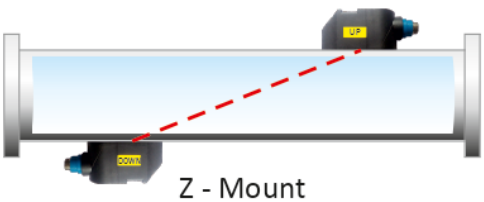
Configuration Details



Sensor Mounting Methods



V - Mount



Z - Mount

Ordering Information for Flow Transmitter

Sample Order Code : ASIONIC 200C-TX-A1-B1-C1-D1-E1-F1-G1

Parameter		Code	Description
A	Power Supply	A1	24 VDC
		A2	230 VAC
		A3	Battery Operated (Battery Life 12 Hours)
B	Enclosure MOC	B1	Aluminium Die Cast
		B2	SS-316
		BY	Other
C	Enclosure IP Rating	C1	IP-54
		C2	IP-67
D	Electrical Connection	D1	M20
		D2	1/2 Inch NPT
		DY	Other

Parameter		Code	Description
E	Electrical Output 1 (Current)	E1	4 to 20 mA
		E2	4 to 20 mA With HART
		EX	NA
F	Electrical Output 2 (Pulse)	F1	Pulse (Open Collector)
		FX	NA
G	Communication Output 1	G1	RS485 (MODBUS RTU)
		GX	NA

Note :
- Carrying case with battery backup optionally available along with all required accessories.

Ordering Information for Sensor

Sample Order Code : ASIONIC 200C-SR1

Parameter		Code	Description
SR	Sensor Size	SR1	Small 50 to 100 NB
		SR2	Medium 125 to 300 NB
		SR3	Large 350 to 2000 NB

Note :
- 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.

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