

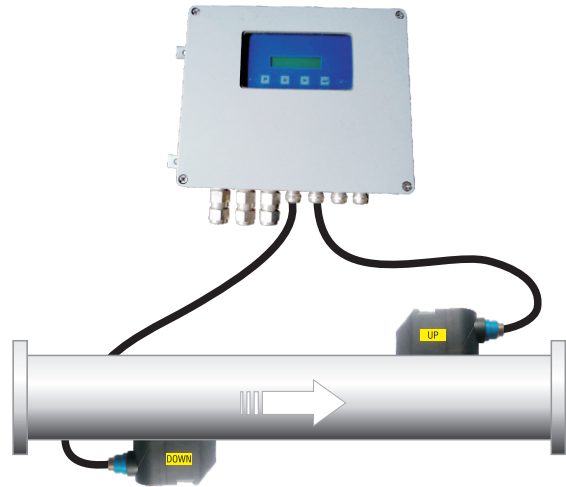
ASIONIC® - 200 C

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



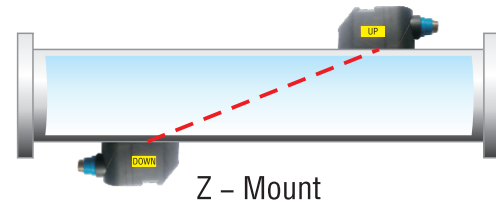
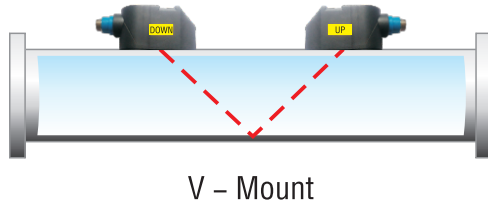
ASIONIC® – 200C Clamp-On Ultrasonic flow meters measure liquids in industrial applications. Because the sensor is clamped on to the outside of the pipe, it is immune to the process compatibility concerns of an in-line flow metering technology. The clamp-on ultrasonic flow meter operates using transit time measurement. By measuring the time it takes for asonic 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. Because the transmitter can process the signal of one or two sensors, it ensures additional economy and the ability to compare or contrast two flow streams, if required. 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

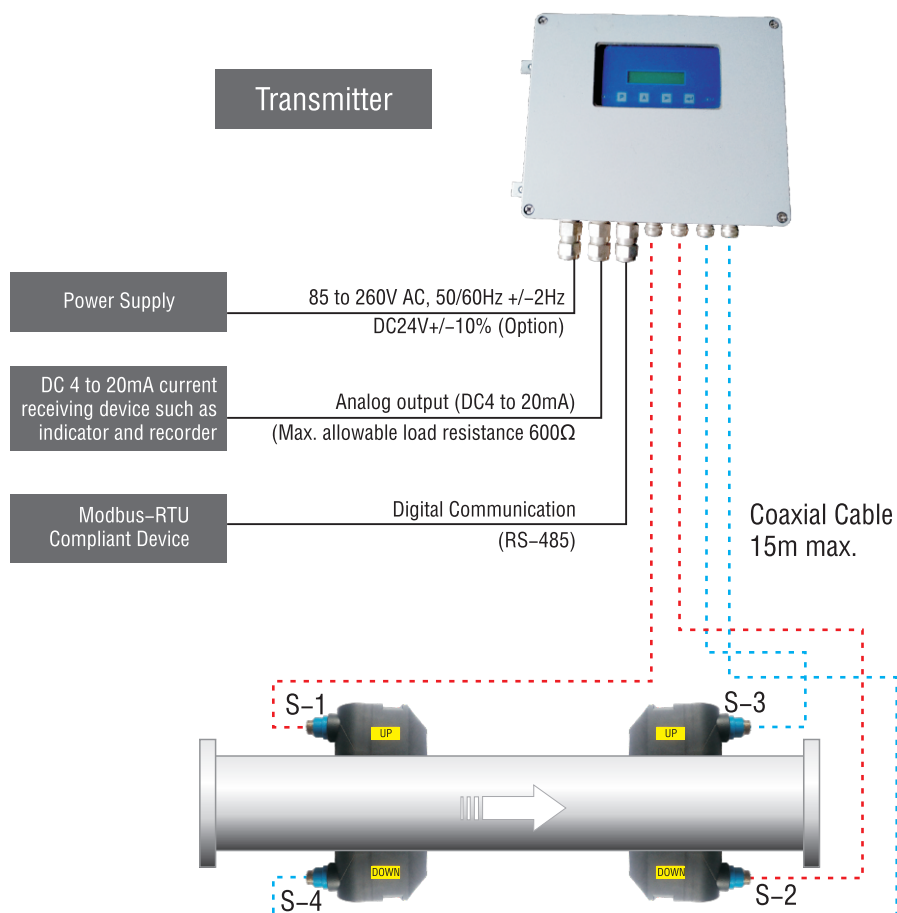
Sensing Method	Differential Transit Type in direct or reflect mode			
Media	Sonically Conductive Liquids			
Viscosity	200 cp maximum			
Turbidity	Smaller than 10,000ppm (mg/ltr) with a low level of air bubble content			
Flow Velocity Range	-12 m/s to +12 m/s (40 ft/s)			
Power Supply	1) 85-260 V AC, 50/60 Hz / 2) 24V DC ±10%			
Accuracy*	Line Size	±1% of MV	±2% of MV	
	50 to 300NB	Single Path	----	
	350 to 600NB	Dual Path	Single Path	
	650 to 2000NB	Dual Path	Single Path	
Acoustic Paths	Single, Dual Path			
Display	LCD Display			
Communication Interface	RS 232 OR RS 485 MODBUS RTU			
Data Logger	Internal Data Logging			
Operating Conditions	Temperature -20°C to 75°C / Humidity 5 to 95% Non Condensing			
Certification	CE			

Operating Temperature – Transducer	–40°C to 80°C (Standard), –40°C to 150°C (Optional)
Pipe Size	25 mm (1") to 2000 mm (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)
Transmitter Enclosure	Cast-Aluminium / ABS Plastic
Transmitter Mounting	Wall Mounted
Protection Class	IP – 66
Sensor Cable	Encapsulated Design Standard Cable Length : 9 mtr. (Optional upto 15 mtr.)
Sensor Mounting Methods	1) 'V' method 2) 'Z' method
Ambient Conditions	Operating Temperature: –10 °C to +60 °C (14 °F to 140 °F)
Sensor Type	Small (DN50–DN300), Medium (DN350–DN600), Large (DN650–DN2000)
Note :- For process conditions other than above, please consult factory.	

Sensor Mounting Methods



Configuration Details



Ordering Information

Sample Order Code : 01N-07B-09A-10Z-11B-22A-23X-24A-50A-51B-53Y-54A-88C

Parameter		Code	Value	
01	Line Size	01F	50 NB	01S 600 NB
		01G	65 NB	01T 700 NB
		01H	80 NB	01U 800 NB
		01I	100 NB	01V 900 NB
		01J	125 NB	01W 1000 NB
		01K	150 NB	01AA 1100 NB
		01L	200 NB	01AB 1200 NB
		01M	250 NB	01AC 1400 NB
		01N	300 NB	01AD 1500 NB
		01O	350 NB	01AE 1600 NB
		01P	400 NB	01AF 1800 NB
		01Q	450 NB	01AG 2000 NB
01R	500 NB			
07	Area Classification	07A	Weather Proof	
		07B	Flame Proof	
09	Electronics	09A	Integral	
		09B	Remote	
10	Remote Cable Length	10A	2 Meter	
		10B	5 Meter	
		10C	10 Meter	
		10D	15 Meter	
		10Z	NA	
11	Number of Paths	11A	Single	
		11B	Dual	

Parameter		Code	Value	
22	MOC Electronics Enclosure	22A	Die Cast Aluminium	
		22B	SS316	
		22C	ABS Plastic	
23	Cable Entry	23A	M20 X 1.5	
		23B	½” NPTF	
		23X	Other	
24	Power Supply	24A	90 – 250 VAC	
		24B	24 VDC	
50	Output 1	50A	4 to 20mA	
		50B	4 to 20mA with HART	
		50Y	None	
51	Output 2	51A	Pulse	
		51B	Freq (o to 1 KHz)	
		51Y	None	
53	Communication Output 1	53A	RS 485	
		53B	RS 232	
		53Y	None	
54	Communication Output 2	54A	GSM	
		54Y	None	
88	Sensor Size	88A	Small	
		88B	Medium	
		88C	Large	

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions.
- For other requirement please consult factory.
- To be used for industrial applications.

Applications

Food Industry	Chemical Industry	Atomic Energy	Manufacturing Industry
Automation Industry	Thermal Power Energy	Process Industry	Water Treatment Industry

ELECTRONET EQUIPMENTS PVT. LTD.

Factory Address:

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