

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 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.

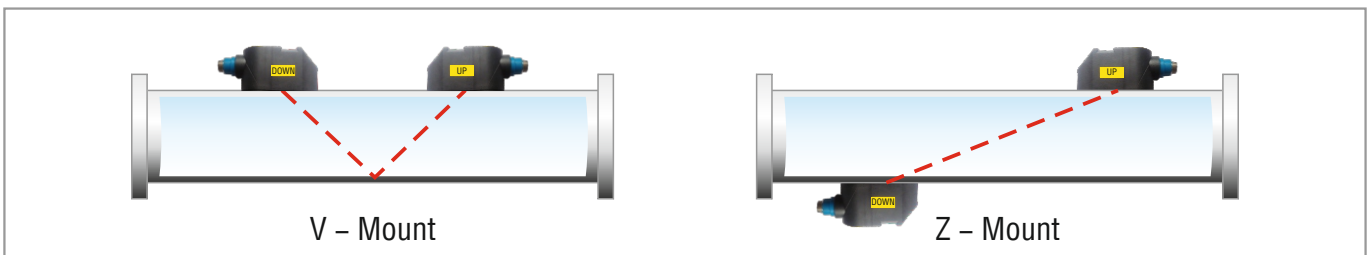


Technical Specifications

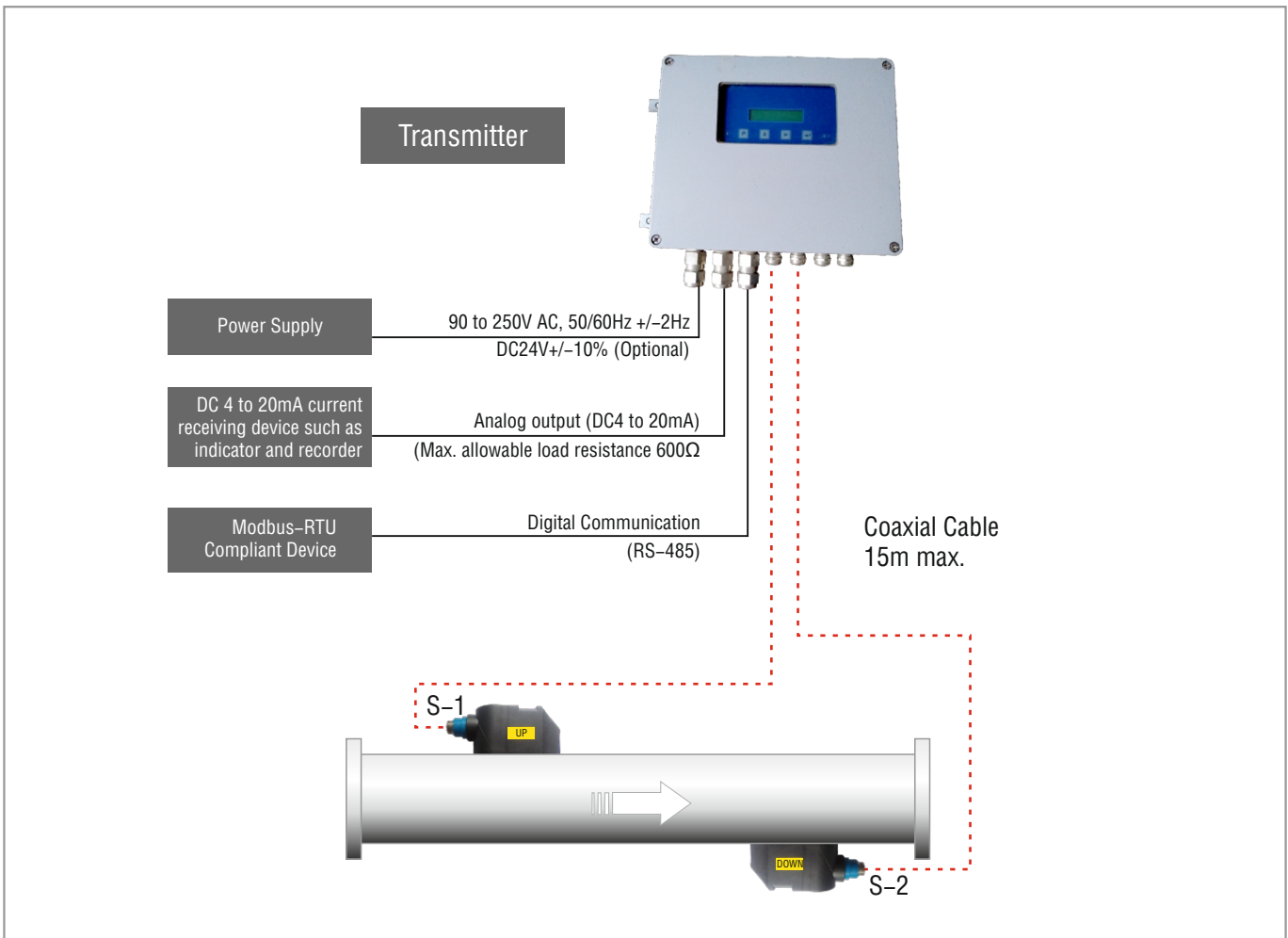
Flow Tube	50 NB to 3000 NB
Sensing Method	Differential Transit Type in direct or reflect mode
Media	Sonically Conductive Liquids
Viscosity	200 cp maximum
Turbidity	Smaller than 10,000ppm (mg/ltr) with a low level of air bubble content
Power Supply	1) 90 – 250V AC 2) 24V DC (+/- 10%) 3) Solar Powered 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
Certification	CE

Operating Temperature – Transducer	-20°C to 80°C (Standard), -20°C to 150°C (Optional)
Pipe Size	50 mm (2”) to 3000mm (120”), 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 (DN50–DN300), Medium (DN100–DN600), Large (DN300–DN3000)

Sensor Mounting Methods



Configuration Details



Product Ordering Information :

Order Code for Flow Transmitter			
Sample Order Code : TX 1 B2 C1 D2 E2 F1 G1 H1 I1			
Parameter	Code	Description	
TX	Electronics Transmitter	TX 1	Field Mount Weather Proof IP 67
		TX 3	DIN Standard (IP 54)
B	Power Supply	B1	90 to 250 VAC
		B2	24 VDC
		B5	Solar Powered 24V DC
C	MOC Electronics Enclosure	C1	Aluminium Die Cast
		C2	SS316
		C3	ABS Plastic
D	Electrical Connection	D1	M20 *1.5 F
		D2	1/2 Inch NPT F
		DY	Other
E	Output 1 (Any one)	E1	4 to 20 mA
		E2	4 to 20 mA HART (Generic)
		EX	NA
Parameter	Code	Description	
F	Output 2	F1	Pulse (Open Collector Type)
		FX	NA
G	Alarm or Relay Output	G1	1 Relay Output
		G2	2 Relay Outputs
		GX	NA
<i>(maximum two alarms or two Relays)</i>			
H	Communication Output 1	H1	RS485 (MODBUS RTU)
		HX	NA
I	Communication Output 2	I1	GSM
		I2	GPRS
		IX	NA
Note : ▪ Carrying case with battery backup optionally available along with all required accessories.			

Order Code for Flow Tube				
Sample Order Code : V1				
Parameter	Code	Description	Note : ▪ Due to our continuous product revisions, design specification and 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.	
V	Sensor Size	V1		Small
		V2		Medium
		V3		Large

ELECTRONET EQUIPMENTS PVT. LTD.

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