

ASIONIC® - 100

TWO WIRE INLINE ULTRASONIC FLOW METER

Features

- Ultrasonic Measurement using Transit Time Technology
- 2 wire system with HART communication
- Full bore type
- Suitable for Conductive and Non Conductive Liquids
- Material option depending upon Process Data
- Local Indication through LCD Display
- Empty Pipe Indication
- Protection Class : Electronics –IP 66, Flow Tube–IP 68
- Maintenance Free
- Options of Integral and Hot Retractable Sensors

Description

Electronet series ASIONIC® – 100 are micro-controller based 2 wire full bore type ultrasonic flow transmitters specially used for various industrial applications. These flow transmitters accurately measure the flow rate of conductive/ non conductive liquids in closed pipes. Due to its simple and rigid design, the flow transmitter is an obstruction-less and maintenance-free instrument in place of conventional mechanical flow measuring device. The use of 'Transit Time' technology offers highest ability and better measuring accuracy in the form of electrical signal 4–20 mA DC linearly proportional to volumetric flow.



Technical Specifications

Media	Liquids
Line Size	15 NB to 200 NB
Electronics	1) Integral 2) Remote
Viscosity	200 cp maximum
Type of Output	4 to 20mA DC, 2 Wire HART Compatible
Display	LCD Display – 5 Digit for Flow Rate & 8 Digit for Totalised Flow
Calibration Range	As per requirement (Factory Calibrated for std. 2m/s velocity)
Accuracy	± 0.5% M.V. @ Velocity > 0.5 m/s
Linearity	± 0.5% of M.V.
Repeatability	± 0.2% of M.V.
Temperature Coefficient	± 0.05% per °C
Process Pressure	10 kg/cm ² maximum
Material of Construction	Flange – MS / SS316
	Sensor – SS 316
Power Supply	24 V DC
Power Consumption	Less than 40mW
Response Time	Less than 10 Sec.
Transmitter Enclosure	IP-66
Process Connections	ANSI 150 Flanged (As per table B 16.5) (Other On Requirement)
Mounting	In-Line Horizontal / Vertical
Operating Conditions	Temperature –20 to 75°C / Humidity 5 to 95% Non Condensing
Certification	CE
Note :- For process conditions other than above, please consult factory.	

Assembly Overview

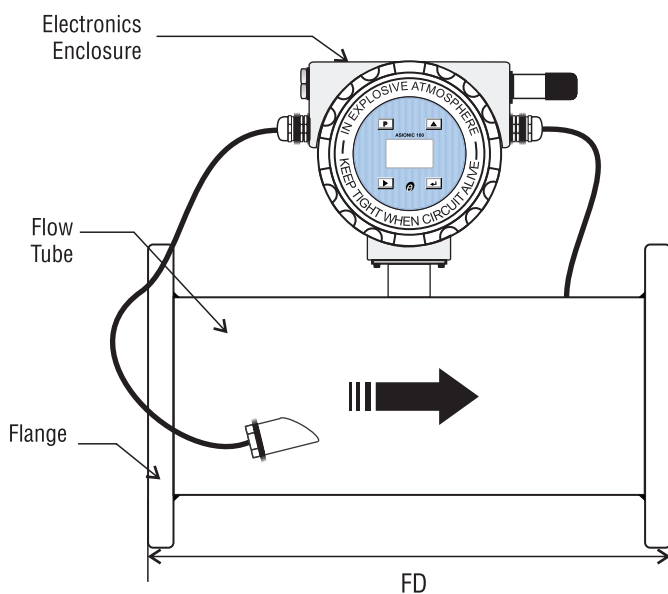


Fig. 1 Front View

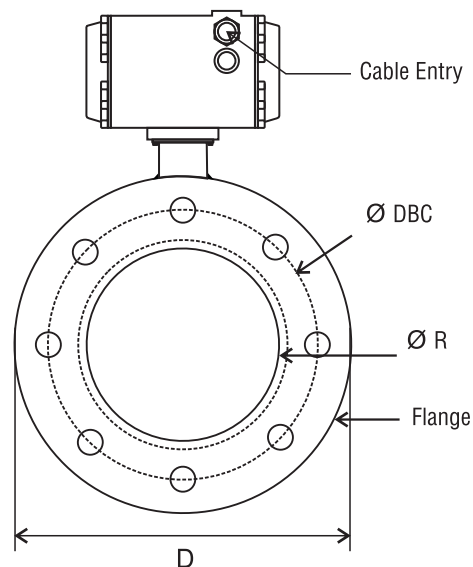


Fig. 2 Side View

TABLE : Dimensional Details Of Flange, as Per ANSI 150 # B-16.5

Refer Drg. Fig.1 & 2

Line Size Inch	NB	Flange Diameter D (mm)	Diameter of Raised Face R (mm)	Diameter of Bolt Hole Circle DBC (mm)	Diameter of Bolt Hole (mm)	No. of Holes	Thickness of Flange	Flange Distance 'FD'		Flow Range (m ³ /hr) at 0.3m/s to 6m/s	
								Fixed Inline	Hot Retractable Insertion	Min.	Max.
1/2"	15	88.9	34.9	60.3	15.9	4	11.1	200	–	0.19	3.817
1"	25	107.9	50.8	79.4	15.9	4	14.3	200	–	0.53	10.602
1 1/2"	40	127.0	73	98.4	15.9	4	17.5	250	–	1.35	27.143
2"	50	152.4	92.1	120.6	19.0	4	19.0	300	490	2.12	42.4115
2 1/2"	65	177.8	104.8	139.7	19.0	4	22.2	350	510	3.58	71.675
3"	80	190.5	127.0	152.4	19.0	4	23.8	350	530	5.42	108.573
4"	100	228.5	157.2	190.5	19.0	8	23.8	360	560	8.48	169.646
5"	125	254.0	185.7	215.9	22.2	8	23.8	400	580	13.25	265.071
6"	150	279.4	215.9	241.3	22.2	8	25.4	420	610	19.085	381.703
8"	200	342.9	269.9	298.4	22.2	8	28.6	470	670	33.929	678.584

Note : Flange to flange distance (FD) Tolerance : 1) 1/2"(15NB) to 6"(150NB) : +/-3mm 2) 8"(200NB) to 12"(300NB) : +/-5mm

- All dimensions are in 'mm'
- For dimensions of line size above 600NB, please consult factory.
- Typical mounting dimensions are for reference only.

- Wet Calibrated on IEC/ISO/EN17025 Accredited Calibration Rig.
- Flow meter should be selected with the help of Nomograph (recommended full scale velocity).
- Flow indication of 6 digit max. up to 999999.

Ordering Information

Sample Order Code : 01A-06A-07B-09A-10Z-22A-23A-49B-66A-67C-70C-71B-72D-81A

Parameter		Code	Value	
01	Line Size	01A	15 NB	01G 65 NB
		01B	20 NB	01H 80 NB
		01C	25 NB	01I 100 NB
		01D	32 NB	01J 125 NB
		01E	40 NB	01K 150 NB
		01F	50 NB	01L 200 NB

06	Temperature Range	06A	0 to 100°C
		06X	Other

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
		10Z	NA

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

49	Output	49A	4 to 20mA
		49B	4 to 20mA With HART

66	Process Connection	66A	Threaded
		66B	Flanged
		66E	* Tri Clover

Parameter		Code	Value
67	MOC Flange	67A	MS
		67B	CS
		67C	SS316
		67D	SS304
		67E	PVC
		67Z	NA

70	Flange Standard	70A	ANSI
		70B	DIN
		70C	AWWA
		70X	Other
		70Z	NA

71	Flange Rating	71A	ANSI 150
		71B	ANSI 300
		71C	ANSI 600
		71D	DIN 10
		71E	DIN 16
		71F	DIN 40
		71X	Other
		71Z	NA

72	MOC Flow Tube	72B	SS304
		72C	PVC
		72D	SS316
		72X	Other

81	Pressure Rating	81A	0 to 16 Bar
		81X	Other

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. * Process connection -Tri Clover : Upto Max. 4 inch Line Size

Applications

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

ELECTRONET EQUIPMENTS PVT. LTD.

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