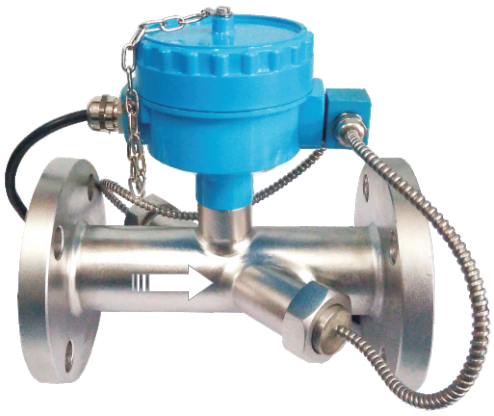
ASIONIC® TX - 22

ELECTRONET™

TWO WIRE ULTRASONIC FLOW METER

Features

- Ultrasonic Measurement using Transit Time Technology
- 2 Wire Configuration
- Full bore type
- Suitable for Conductive and Non Conductive Clean Liquids
- Material option depending upon Process Data
- Local Indication through LCD Display
- Empty Pipe Indication
- Protection Class : IP 68
- Maintenance Free



Description

Electronet series ASIONIC® TX–22 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	Clean Liquids
Line Size	50 NB to 300 NB
Electronics	Integral
Viscosity	200 cp maximum
Type of Output	4 to 20mA DC, 2 Wire
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 – SS316
	Sensor – SS316
Power Supply	24 V DC
Power Consumption	Less than 40mW
Response Time	Less than 10 Sec.
Transmitter Enclosure	IP–68
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

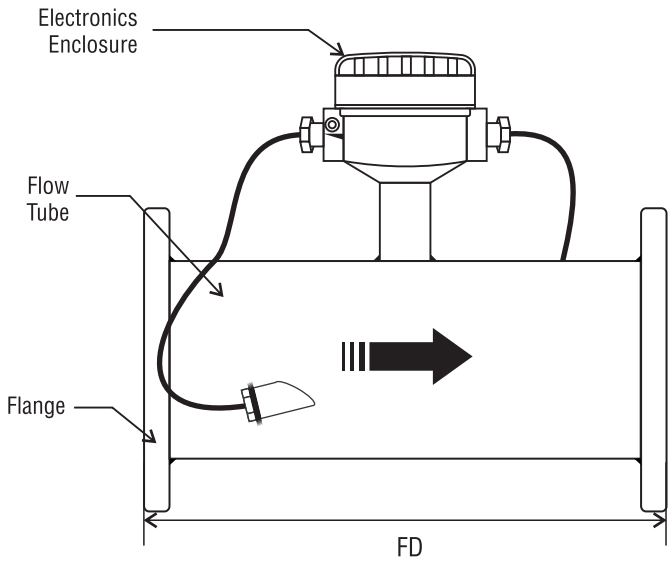


Fig. 1 Front View

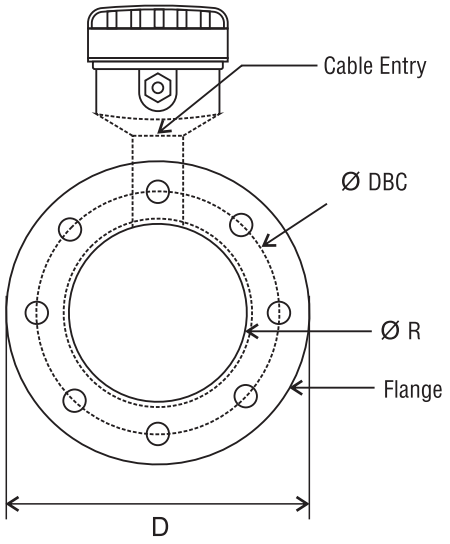


Fig. 2 Side View

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

Refer Drg. Fig.1 & 2

Line Size		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	
Inch	NB							Fixed Inline	Hot Retractable Insertion	Min.	Max.
½"	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
1½"	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
2½"	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
10"	250	406.4	323.8	361.9	25.4	12	30.2	550	730	53.014	1060.28
12"	300	482.6	381.0	431.8	25.4	12	31.8	620	780	76.340	1526.81

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'
- Flow indication of 6 digit max. up to 999999.
- 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).

Ordering Information

Sample Order Code : 01A–22B–23A–66B–67C–70B–71E–72C

Parameter		Code	Value	Code	Value
01	Line Size	01A	15 NB	01H	80 NB
		01B	20 NB	01I	100 NB
		01C	25 NB	01J	125 NB
		01D	32 NB	01K	150 NB
		01E	40 NB	01L	200 NB
		01F	50 NB	01M	250 NB
		01G	65 NB	01N	300 NB
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		
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
		71D	DIN 10
		71E	DIN 16
		71Z	NA
72	MOC Flow Tube	72B	SS304
		72C	PVC
		72D	SS316

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

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