

ASIONIC® - 400

BATTERY OPERATED ULTRASONIC FLOW METER

Features

- Ultrasonic Measurement using Transit Time Technology
- Full Bore Type
- Local Indication through LCD Display
- Simple and Cost Effective Construction
- Empty Pipe Indication
- Battery Operated
- IP 68 Construction
- Leak Burst and Tamper Detection
- No Pressure Drop
- Automatic Meter Reading option over GSM & RF Networks

Description

Electronet series ASIONIC®-400, battery-powered Ultrasonic flow meters gives the flexibility to install a reliable flow meter, virtually anywhere, without distorting accuracy and performance with long battery life. The flow meter is extremely easy to use, simple to install and requires no regular maintenance. The product is engineered for various industrial as well as domestic applications such as Municipal and Industrial Water applications, Cooling tower, Water treatment, etc. The LCD display provides indication for flow rate and totalized flow with key selection. The display auto shuts off after 10 minutes, which increases the battery life. The display can be turned ON by pressing the 'enter' key.



Technical Specifications

Media	Liquids
Line Size	50 NB to 300 NB
Electronics	1) Integral 2) Remote
Communication Media	GSM or RF
Viscosity	200 cp maximum
Display	LCD Display – 7 digit for Flow Rate & 8 digit for Totalised Flow
Calibration Range	As per requirement (Factory Calibrated)
Accuracy	± 1% 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 Temperature	-20°C to 90°C maximum
Process Pressure	15 kg/cm ² maximum
Material of Construction	Flow tube – SS / MS / CS
Power Supply	Inbuilt Battery 3.6 V, 19 Ah (4 nos)
Low Battery indication	Provided
Battery Life	2 to 10 Years depending on sampling time
Response Time	Less than 10 Sec.
Ingress protection	IP 66
Certification	CE

Process Connections	ASA 150 Flanged (As per table B 16.5)
Operating Conditions	Temperature -20 to 75°C / Humidity 5 to 95% Non Condensing
Data Logging	For 5 Years (Per day 1 Sample)
Note :- For process conditions other than above, please consult factory.	

Assembly Overview

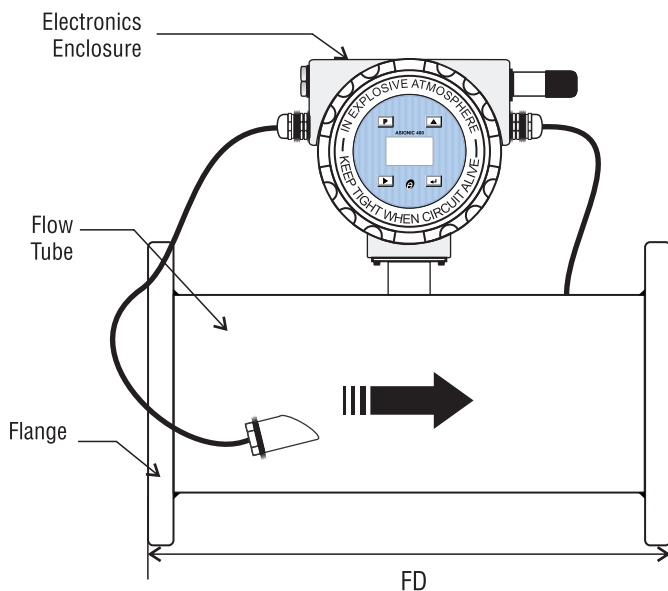


Fig. 1 Front View

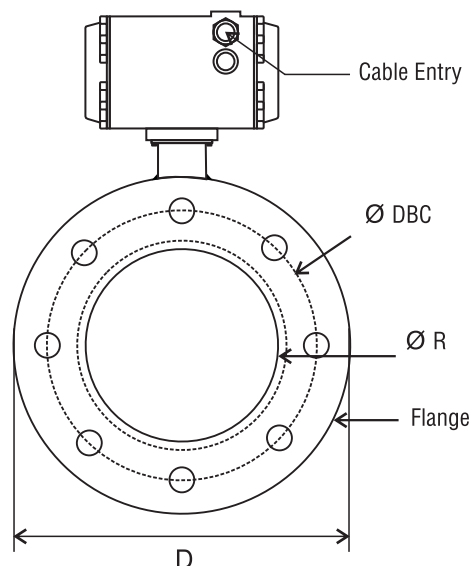


Fig. 2 Side View

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

Refer Drg. Fig.1 & 2

Line Size		Flange Diameter 'D'	Diameter of Raised Face 'R'	Diameter of Bolt Hole Circle 'DBC'	Thickness of Flange	Diameter of Bolt Hole	No. of Holes	Flange Distance 'FD'	Flow Range(m3/hr) @ 0.3m/s to 6m/s	
Inch	NB								Minimum	Maximum
2"	50	152.4	92.1	120.6	19.0	19.0	4	200	2.12	42.4115
2 × ½"	65	177.8	104.8	139.7	22.2	19.0	4	200	3.58	71.675
3"	80	190.5	127.0	152.4	23.8	19.0	4	200	5.42	108.573
4"	100	228.5	157.2	190.5	23.8	19.0	8	250	8.48	169.646
5"	125	254.0	185.7	215.9	23.8	22.2	8	250	13.25	265.071
6"	150	279.4	215.9	241.3	25.4	22.2	8	300	19.085	381.703
8"	200	342.9	269.9	298.4	28.6	22.2	8	350	33.929	678.584
10"	250	406.4	323.8	361.9	30.2	25.4	12	450	53.014	1060.28
12"	300	482.6	381.0	431.8	31.8	25.4	12	500	76.340	1526.81

- Note :**
- All dimensions are in 'mm'
 - Flange to flange distance (FD) Tolerance : 1) 1/2"(15NB) to 6"(150NB) : +/-3mm 2) 8"(200NB) to 12"(300NB) : +/-5mm
 - For dimensions of line size above 600NB, please consult factory.
 - Typical mounting dimensions are for reference only.
 - Standard factory calibration is for 0.2 to 2 m/s velocity.
 - Flow meter should be selected with the help of Nomograph (recommended full scale velocity).
 - Flow indication of 7 digit max. up to 9999999.

Ordering Information

Sample Order Code : 01N-06A-07B-09B-10A-22A-23A-24C-51A-53A-54Y-66E-67B-70A-71E-72B-81A

Parameter		Code	Value	
01	Line Size	01A	15 NB	01K 150 NB
		01B	20 NB	01L 200 NB
		01C	25 NB	01M 250 NB
		01D	32 NB	01N 300 NB
		01E	40 NB	01O 350 NB
		01F	50 NB	01P 400 NB
		01G	65 NB	01Q 450 NB
		01H	80 NB	01R 500 NB
		01I	100 NB	01S 600 NB
		01J	125 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	
24	Power Supply	24B	24V DC	
		24C	Battery Operated	
		24D	Solar + Battery Operated	
51	Output 2	51A	Pulse	
		51B	Freq (o to 1 KHz)	
		51Y	None	
53	Communication Output 1	53A	RS485	
		53B	RS232	
		53Y	None	

Parameter		Code	Value
54	Communication Output 2	54A	GSM
		54B	RF
		54Y	None
66	Process Connection	66A	Threaded
		66B	Flanged
		66E	Tri Clover
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.
- 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.

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