ASIONIC® - 400 U

ELECTRONET™

ULTRASONIC METER WITH FLOW – PRESSURE – TEMPERATURE MEASUREMENT

Features

- Ultrasonic Measurement using Transit Time Technology
- Flow, Pressure, Temperature Display and Transmission
- Local Indication through LCD Display
- Full Bore Type
- 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®–400U, 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 plants etc.

The LCD display provides indication for flow, Pressure and Temperature. 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 – 8 Digit for Totalised Flow
	4 Digit for Flow / Temperature / Pressure in scrolling mode
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	0 to 100 °C
Process Pressure	0 to 20 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
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) Optional
Note :– For process conditions other than above, please consult factory.	

Assembly Overview

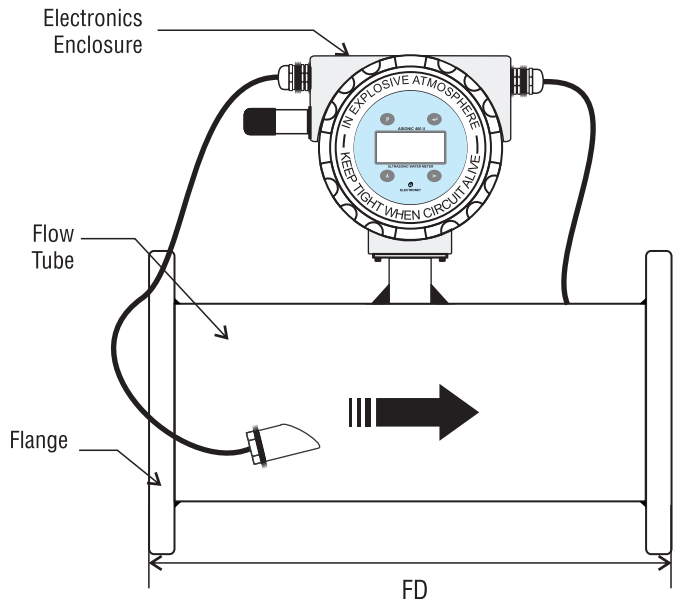

Fig. 1 Front View

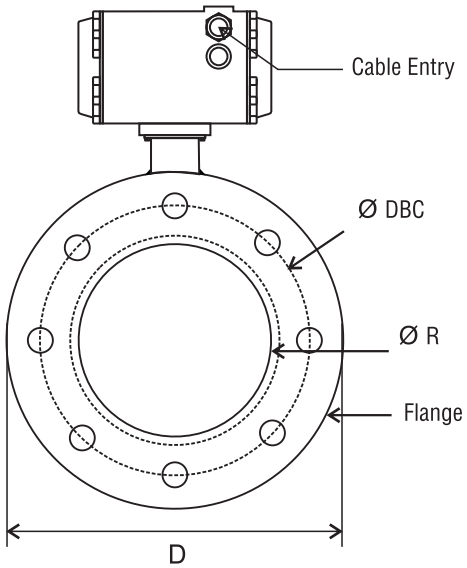

Fig. 2 Side View

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 4 digit max. up to 9999.

Ordering Information

Sample Order Code : 01J–06A–07B–09A–10Z–22A–23B–24B–51B–53A–54Y–66A–67A–70A–71A–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.

Factory Address:
Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,
Khandala, Dist.– Satara
Pin: 412 801, Maharashtra, India.

Registered Office:
Plot No. 84, 85, 86, Tiny Industrial Estate,
Kondhwa Budruk,
Pune–411 048, Maharashtra, India.

+91-20-26931476/2039 ho@eeplindia.com +91-20-26934122 www.eeplindia.com