



FL 100

TWO WIRE TURBINE FLOW METER

Features

- 2 Wire System
- Simple & Cost Effective Construction
- Local Display as 8X1 LCD
- Suitable for Conductive and Non Conductive Liquids
- Durable & Versatile
- Easy Maintenance
- Protection Class : IP-66
- Remote Display optionally available

Description

Electronet series FL-100 are 2 wire turbine flow transmitters specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow. The frequency is linearly proportional to flow rate which is converted to electrical signal 4 – 20 mA .



Technical Specifications

Media	Liquids (Clear)
Line Size	15 NB to 300 NB
Electronics	Integral / Remote
Viscosity	100 cp max
Display	8 X 1LCD display – 4 Digit for Flow Rate and 8 Digit for Totalizer Flow (Flow Rate & Totalised Flow will be visible through Toggle Key)
Remote Electronics Cable	15 Meters Max.
Type of Output	1) 4 to 20mA DC 2) Pulse – 30mA Peak-Peak (Open Collector)
Calibration Range	As per requirement (Factory Calibrated)
Accuracy	+/- 1% of F. S. @ Velocity > 0.5 m/s
Linearity	+/- 1% of F. S.
Repeatability	+/- 1% of F. S.
Temperature Coefficient	+/- 0.01% Per °C
Pressure Drop	Approx. 0.28 kg/cm ² @ max. Flow
Turn Down Ratio	10 : 1 to 100 : 1
Process Temperature	-20 to 120° C max
Process Pressure	0 to 10 kg/cm ² max
Material of construction	1) Bearings – Tungsten Carbide Sleeve / V Jewel 2) Rotor – SS 410 / 17.4 PH 3) Shaft – Tungsten Carbide 4) Body / Support / Flange – SS
Cable Entry	M20 X 1.5 / ½” NPTF
Certification	CE

Power Supply	24 V DC
Power Consumption	Less than 0.5 VA
Response Time	Less than 100 mSec.
Transmitter Enclosure	Die Cast Aluminum IP 66
Process Connections	1) ASA 150 RF, Flanged as per Table B 16.5 2) Threaded (Upto 50 NB) 3) SS Tri-Clover (Upto 150 NB)
Mounting	In-Line Horizontal / Vertical
Operating Conditions	Temperature -20 to 75°C / Humidity 5 to 95% non condensing
Note :- For process conditions other than above please consult factory.	

Assembly Overview

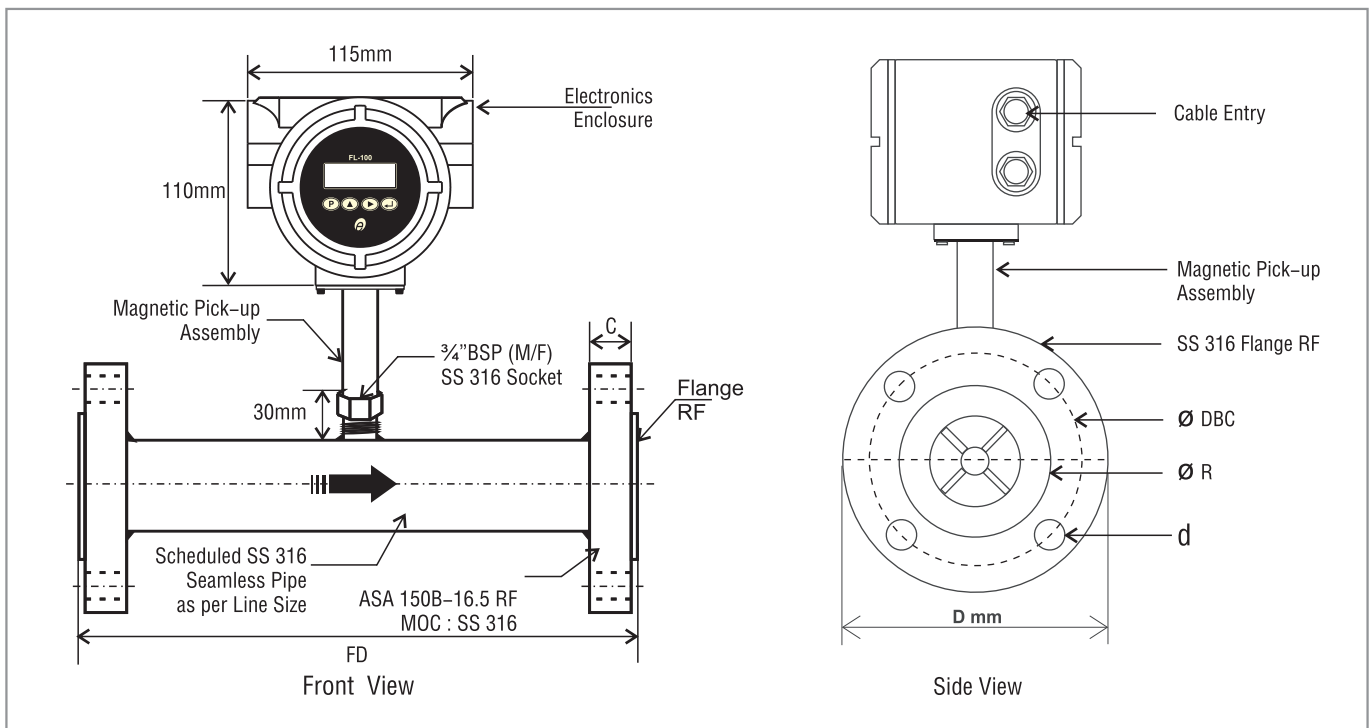


TABLE -1 : Dimensional Details Of Flange, as Per ANSI 150 # B-16.5

	Line Size		Flow Range			Flange Details ANSI 150 (B 16.5)					
	Inch	NB	0.3m/s (m ³ /hr)	2m/s (m ³ /hr)	10m/s (m ³ /hr)	D	C	R	DBC	d	FD
Note : D : (OD)Outer Diameter of Flange C : Thickness of flange R : Diameter of Raised face DBC : Diameter of bolt circle d : Size of Bolt Hole FD : Flange to Flange distance No. of Holes: For 1/2" to 3" = 4 Holes 4" to 6" = 8 Holes *Typical mounting dimensions for reference only *All dimensions are in 'mm'	1/2"	15NB	0.19	3.275	6.36	88.9	11.1	34.9	60.3	15.9	200
	3/4"	20NB	0.34	5.825	11.31	98.4	12.7	42.9	69.8	15.9	200
	1"	25NB	0.5301	9.100	17.67	107.9	14.3	50.8	79.4	15.9	200
	1 1/4"	32NB	0.87	14.91	28.95	117.0	14.0	64	78	14.0	200
	1 1/2"	40NB	1.36	23.3	45.24	127.0	17.5	73	98.4	15.9	200
	2"	50NB	2.12	36.4	70.69	152.4	19.1	92.1	120.6	19.0	200
	2 1/2"	65NB	3.58	61.52	119.46	177.8	22.2	104.8	139.7	19.0	200
	3"	80NB	5.43	93.19	180.96	190.5	23.8	127.0	152.4	19.0	200
	4"	100NB	8.48	145.61	282.74	228.6	23.8	157.2	190.5	19.0	250
	5"	125NB	13.25	227.52	441.79	254.0	23.8	185.7	215.9	22.2	300
	6"	150NB	19.09	327.63	636.17	279.4	25.4	215.9	241.3	22.2	300
	8"	200NB	33.93	582.45	1130.97	342.9	28.3	269.9	298.4	22.2	350
10"	250NB	53.01	910.08	1767.15	323.8	30.2	323.8	361.9	25.4	450	
12"	300NB	76.34	1311.01	2544.69	381.0	31.8	381.0	431.8	25.4	500	

Ordering Information

Sample Order Code : 01A-07B-09B-10B-15A-16C-22A-23B-49B-66B-67A-70A-71A-72B-82B-83A

Parameter	Code	Value		Parameter	Code	Value				
01	Line Size	01A	15 NB	01H	80 NB	66	Process Connection	66A	Threaded	
		01B	20 NB	01I	100 NB			66B	Flanged	
		01C	25 NB	01J	125 NB			66E	Tri Clover	
		01D	32 NB	01K	150 NB		67	MOC Flange	67C	SS316
		01E	40 NB	01L	200 NB				67D	SS304
		01F	50 NB	01M	250 NB				67X	Other
		01G	65 NB	01N	300 NB				67Z	NA
07	Area Classification	07A	Weather Proof		70	Flange Standard	70A	ANSI		
		07B	Flame Proof				70B	DIN		
09	Electronics	09A	Integral				70C	AWWA		
		09B	Remote				70X	Other		
10	Remote Cable Length	10A	2 Meter				70Z	NA		
		10B	5 Meter				71	Flange Rating	71A	ANSI 150
		10C	10 Meter		71B	ANSI 300				
		10D	15 Meter		71C	ANSI 600				
		10Z	NA		71D	DIN 10				
15	Process Temperature	15A	-20 to 120 °C		71E	DIN 16				
16	Process Pressure Range	15X	Other		71F	DIN 40				
		16A	150 psi		71X	Other				
		16B	300 psi		71Z	NA				
		16C	600 psi		72	MOC Flow Tube	72B	SS304		
		16D	900 psi				72D	SS316		
16X	Other		72X	Other						
22	MOC Electronics Enclosure	22A	Die Cast Aluminium		82	MOC Rotor	82A	SS410		
		22B	SS316				82B	17-4PH		
23	Cable Entry	23A	M20 X 1.5				82X	Other		
		23B	½" NPTF		83	Bearings	83A	TG Sleeve		
		23X	Other				83B	V Jewel		
49	Output	49A	4 to 20mA		83X	Other				
		49B	4 to 20mA with HART		Note : <ul style="list-style-type: none"> ▪ 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. * Pulse (Open Collector).					
		49D	Pulse*							
		49Y	None							

Applications

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

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