ELECTRONET EQUIPMENTS PVT. LTD

PROCESS CONTROL INSTRUMENTS & AUTOMATION

TURBINE FLOW TRANSMITTER WITH LOCAL DISPLAY SERIES FL 106

SALIENT FEATURES

- Simple and cost effective construction.
- Provides wide flow ranges.
- Outstanding accuracy for clean & low viscosity applications.
- Operates over wide ranges of Temperature & Pressure.
- Additive Feature of Remote Control Unit for Programming.
- Flame-proof, IP-65,Gr.I, IIA, IIB, CMRI certified housing for Display.

DESCRIPTION

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 mA signal by electronic circuitry.

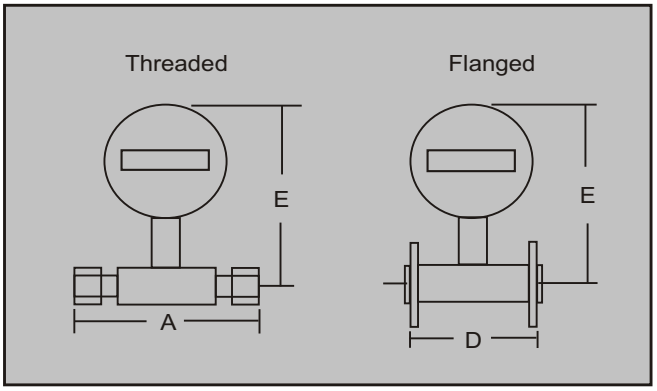
TECHNICAL SPECIFICATIONS

Media	:	Liquids (Clear)
Viscosity	:	50 cp max.
Line Size	:	0.5 inch to 6 inch
Output	:	1) 4 - 20 mA DC - 2 Wire 2) Pulse - 30 mV P-P 3) Amplified Pulse
Display	:	4 Digit for Flow Rate & 8 Digit for Flow Totaliser 16 x 2 Backlit Alphanumeric LCD (Optional)
Accuracy	:	Better than $\pm$ 1% F. S.
Response Time	:	Less than 100 mSec
Temperature Range	:	0 - 150 ^{0}C max.
Pressure Range	:	0 - 30 Kg/cm^{2} max
Pressure Drop	:	Approx. 0.28 Kg/cm^{2} at max. Flow
Temperature Drift	:	Less than 0.01% of F. S. per ^{0}C change
Power Supply	:	24 V DC, External
Power Consumption	:	Less than 4 VA
Turn down Range	:	10 : 1 to 100 : 10
MOC	:	Body - SS 316 / Teflon / PP, Flange - SS 316 / Teflon / PP, Rotor - SS 410(Optionally Teflon coated)
Process Connections	:	1) Flanged 2) Threaded
Enclosure	:	Flame-proof, IP-65,Gr.I,IIA, IIB, CMRI Certified
Mounting	:	In-Line, Horizontal

CODIFICATION FOR FL 106

	CODE		CODE		CODE	
	OUTPUT		MOC		PROCESS CONNECTION	
	01 : 4 - 20mA DC		01 : SS 316		01 : FLANGED	
			02 : PP		02 : THREADED	
			03 : TEFLON			
FL- 106	01		01		01	SAMPLE MODEL NUMBER

MOUNTING DETAILS



NOTE : 1. Ranges shown are standard ranges, other than these are also possible.
2. All flanges rated for ASA 150# RF.
3. Consult applications group for additional information.

LINE SIZE SELECTOR CHART WITH RESPECT TO FLOW RANGE

Line Size (Inch)	A (mm)	C (mm)	D (mm)	Liquid Flow Ranges	
				m^3/hr	LPM
½	45	208	---	0.4 to 4.0	6.6 to 66.6
¾	60	210	---	0.8 to 8.0	13.3 to 133.3
1	75	213	75	1.6 to 16	26.6 to 266.6
1 ½	120	220	120	3.4 to 34	56.6 to 566.6
2	150	225	150	6.8 to 68	133 to 1133
3	225	238	225	13.5 to 135	225 to 2250
4	300	250	300	27.0 to 270	450 to 4500
6	450	275	450	55.0 to 550	916 to 9166

NOTE: To maintain linear flow it is mandatory to maintain straight line of 10D at Upstream & Downstream.Also,if any foreign particals are existing in medium it is advised to install strainer on Inlet of Flow meter.

Due to our continuous product revisions, Design, Specifications and Model Numbers are subject to change without notice.

MANUFACTURED & MARKETED BY

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