TURBINE FLOW METER

DESCRIPTION

Flowstar series FETFM 2 wire /FETFM 4 wire turbine flow transmitter 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 pulsation 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.

FETFM-200

SALIENT FEATURES

1) 2 wire system/ 4 wire system
2) Simple & cost effective construction
3) Provides wide flow ranges
4) Local display as 8 x 1 LCD./ 4 digit 0.3 " Red LED for flow rate & 8 digit, 0.3"Red LED For totalized Flow
5) Outstanding accuracy for clean & low viscosity applications
6) Operates over wide ranges of temperature & pressure
7) Easy maintenance
8) Flame-proof, IP-65, IIA, IIB CMRI Certified housing

FETFM-100

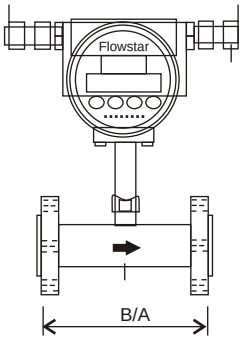
Insertion Type Turbine Flow Transmitter

FETFM-300

TECHNICAL SPECIFICATIONS

Media: Liquids (Clear)
Viscosity : 100 cp max
Pick off Type: Magnetic sensor
Line Size : 15 NB to 150 NB
Display : 8 x 1 LCD/ 4x1 LED, 8 x 1 LED
Type of Output: 4 to 20 mA DC, 2 wire/Pulse 30 mV (one at a time)
Calibration Range: As per requirement (Factory Calibrated)
Accuracy : +/- 1% F. S.
Linearity : +/- 1%
Repeatability : +/- 1%
Pressure Drop : Approx 0.28 kg/cm3 at max. flow
Turn down ratio : 10:1 to 100:1
Process Temperature : 150 °C max
Process Pressure : 30 kg/cm3 max
Material of construction : Body, Bearing, Support & Flange - SS 316 / Teflon
Rotor : SS 410 / SS 410 with Teflon coating
Shaft : tungsten carbide
Power Supply : Loop powered, 24 V DC, External
Power Consumption : < 40 mW
Response Time : < 100 mSec
Temperature Coefficient : +/- 0.01% per °C
Transmitter Enclosure : Flame-proof, IP-65, IIA, IIB CMRI Certified
Process Connections : Flanged / Threaded / Tri-clover
Mounting : In-line (Horizontal OR Vertical)
Operating Conditions : Temperature 0 to 55°C / Humidity 5 to 95% non condensing

ASSEMBLY DETAILS



A: In case of Flange Connection,
B: In case of Thread Connection

LINE SIZE SELECTOR CHART WITH RESPECT TO FLOW RANGE

Line Size (NB)	A (mm)	B (mm)	Liquid flow Range m^3/hr
15	175	208	0.22 to 2.2
20	175	210	0.6 to 6
25	175	213	1 to 10
40	175	220	2.5 to 25
50	175	238	4.5 to 45
80	250	238	9 to 90
100	250	250	18 to 180
150	250	275	35 to 350

DETAILS REQUIRED FOR QUOTATION

1. Name of the fluid
2. Operating temperature
3. Operating pressure
4. Operating viscosity/ density
5. Line size and connection detail
6. Measuring range
7. Power supply require
8. Enclosure flame proof
9. Mounting i.e horizontal or vertical
10. Material of construction for wetted parts

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