

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 °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 °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 | OUTPUT | CODE | MOC | CODE | PROCESS CONNECTION |
| 01 | : 4 - 20mA DC | 01 | : SS 316 | 01 | : FLANGED |
| | | 02 | : PP | 02 | : THREADED |
| | | 03 | : TEFLON | | |

FL- 106

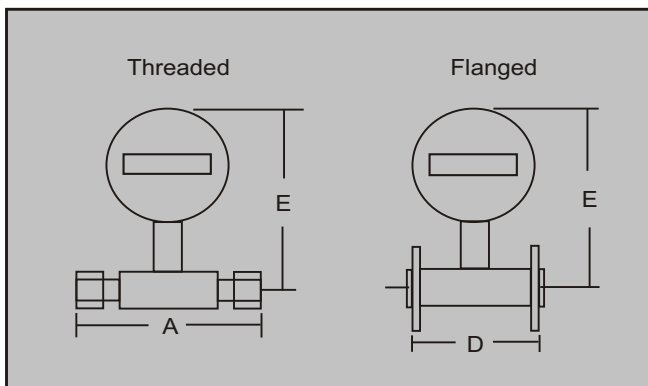
01

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 particles 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

ELECTRONET EQUIPMENTS PVT. LTD
 PROCESS CONTROL INSTRUMENTS & AUTOMATION

Plot No 85 & 86, Tiny Industrial Estate, Kondhwa Bk.

Pune - 411 048, Maharashtra, India

Telefax: +91 20 2693 4122 / 1476

E-mail: elecnet@vsnl.com/eeplsales@dataone.in

Web: www.electronetequipments.com

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