FOUR ITS PVT.LTD.

Electromagnetic FlowMeter

Electromagnetic flow meters are mainly used in various industries, ETP, STP, WTP Plants,Borewell and for conductive liquids for measuring the water flow rate.

Desription

MAG-111 are micro-controller based full bore type electromagnetic flow meters specially used for various industrial applications. These flow meters accurately measures the flow rate of conductive liquid & slurries in closed pipes. Due to simple & rigid design, the flow meter is an obstruction less & maintenance free instrument in place of conventional mechanical flow measuring device.

The use of 'Pulsed DC'technology offers highest ability & better measuring accuracy in the form of electrical signal 4 - 20mA DC linearly proportional

to volumetric flow. The instrument is based on Faraday's law of electro-magnetic induction. A magnetic field is generated by the instrument in

the flow tube. fluid flowing through this magnetic field generates a voltage that is proportional to the flow velocity. Corresponding electrical output is provided with respect to measuring flow range.





OFFICE ADDRESS:- 914, Conscient ONE, Dwarka Expressway, Sector 109, Gurgaon 122017, Haryana



TechnicalSpecifications:

Media : Liquids (Conductive) Conductivity: >5 µs/cm Viscosity : 200 cp max Line Size : 15 NB to 1000 NB Excitation : Pulsed DC Type of Output: 1) 4 to 20 mA DC, Isolated 2)RS485 MODBUS 3)Pulse Display: : Graphics type Engineering Unit : User Programmable (m³ /hr by default) Calibration Range : As per requirement (Factory Calibrated) Accuracy : +/- 0.5% of F. S. (for 20 to 100%) flow) Linearity: +/- 0.5% of F.S. Repeatability +/- 0.2% of F.S. Temperature Coefficient : +/- 0.05% per °C Process Temperature : 85° C max for Rubber Lining & 150°C for PTFE Lining Process Pressure : 10 kg/cm^2 max (higher on request)

Material of Construction:

above please consult factory.

Material of construction : Lining - Rubber (5mm +/-1mm thick) / PTFE (3mm +/-1mm thick) Flange - CS / MS / SS Electrode - SS 316L / Hastalloy C / Platinum Coil Housing -MS / SS 304 Power Supply : 220V AC/24V DC Isolation : 1.4 KV between Input, Output & Power Supply Response Time : < 1 Sec Transmitter Enclosure : Die cast Aluminium IP 66, flow tube IP 68 Process Connections : ASA 150 flanged, as per table B 16.5 Mounting : In-Line Horizontal (Vertical on request) Operating Conditions : Temperature 0 to 55°C / Humidity 5 to 95% non condensing Note :- For process conditions other than SalientFeatures:

- Suitable for conductive liquids
- $\circ \quad \text{Maintenance free} \\$
- o Full bore type
- Local Indication through LCD
- Simple & cost effective construction
- Empty pipe indication
- Material option
 depending upon process
 data

