TECHWAY INSTRUMENTS

ELECTROMAGNETIC FLOW METER

INTRODUCTION: Electromagnetic Flow Meter commonly known as magnetic flow meter works on principle of Faradays Law of Electromagnetic Induction. A magnetic field is applied to the metering tube, which results in a potential difference proportional to the flow velocity perpendicular to the flux lines. The physical principle at work is electromagnetic induction. The magnetic flow meter requires a conducting fluid, for example, water that contains ions, and an electrical insulating pipe surface, for example, a rubber/PTFE lined steel tube.

GENERAL TECHNICAL FEATURES:

- Available size: 15 mm – 200 mm.
- Digital LCD Display with Flow and Total Indication.
- Accuracy 0.5 %
- Output 4- 20 mA.
- Rubber & PTFE Lining.
- SS 316 & Hastalloy Electrode.
- Temperature upto 150 Deg.C.
- Pressure range upto 60 Bar.
- Calibration Factor for Error compensation.
- Suitable for Raw water,chemicals,dairy products,etc.
- Most useful and efficient in effuluent and sewage flow measurement.

Flow Range Table

METER SIZE	FLOW RANGE A(M3/HR)*
15 MM	0.06-9.5
25 MM	0.2-26
40 MM	0.4-67
50 MM	0.7-106
80 MM	2-270
100 MM	3-425
150 MM	6-950
200 MM	11-1695
250 MM	17-2650

Note : Other size also available on request.

UNIQUE FEATURES OF ELECTROMAGNETIC FLOW METER:

(a) No moving parts in the flow meter.

(b)Simple structure and reliable running

(c) Measuring accuracy will not be influenced by medium temperature, pressure, viscosity, density and physical parameter; as long as the conductivity of measured medium more than 5 μs/cm, and indication is not influenced by conductivity changes.

(d) No Flow detection.

(e) Zero Pressure Loss.

(f) Bidirectional Flow measurement.

(g) Easy to Install.

(h) Very good for liquid with solid particles and slurries.

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