

ELECTRO MAGNETIC FLOWMETER

Micro-controller based full bore type electromagnetic flow transmitter specially used for various industrial applications. These flow transmitters accurately measures the flow rate of conductive liquids & slurries in closed pipes. Due to simple & rigid design the flow transmitter 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 - 20 mA 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. The 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 voltage.



FLMAG-200

TECHNICAL SPECIFICATIONS

Media	: Liquids (Clear)	Display	: 1) 16 x 2 LCD :2) 4 digit, 0.3" Red LED for Flow Rate Indication & 8 digit, 0.3" Red LED for Totalised Flow Indication
Line Size	: 15 NB to 2000 NB.	Repeatability	: +/- 1%
Accuracy	: +/- 0.5% F. S.	Linearity	: +/- 0.5%
Process Temperature	: 150 °C max	Excitatio	: Pulsed DC coil
Type of Output	: 4 to 20 mA DC, Isolated, Pulse, RS 485	Viscosity	: 200 cp max
Calibration Range	: As per requirement (Factory Calibrated)	Material of construction	: Lining - Neoprene / Rubber / PTFE (Teflon) Flange - MS / SS Electrode - SS 316, SS 316 L, Hastalloy "C", Platinum Wetted Parts - SS 316, Body - MS
Process Pressure	: 10 kg/cm ² max	Power Supply	: 1) 230 V AC, 50 Hz +/- 10% 2) 24 V DC, External
Material of construction	: Lining - Neoprene / Rubber / PTFE (Teflon) Flange - MS / SS Electrode - SS 316, SS 316 L, Hastalloy "C", Platinum Wetted Parts - SS 316, Body - MS	Isolation	: 1.4 KV between Input, Output & Power Supply
Power Supply	: 1) 230 V AC, 50 Hz +/- 10% 2) 24 V DC, External	Temperature Coefficient	: +/- 0.1% per °C
Isolation	: 1.4 KV between Input, Output & Power Supply	Dimensions	: As per chart on rear
Temperature Coefficient	: +/- 0.1% per °C	Process Connections	: ASA B 16.5, Flanged
		Mounting	: In-Line (Horizontal or Vertical)

Line Size	15	20	25	40	50	65	80	100	150	200	250	300	350
Flow Range M ³ /Hr	0.4-4.2	0.6-6	1-10	2.7-27	4.2-42	7.1-71	10-100	17-170	38-380	67-678	100-1000	150-1500	200-2000
F/F Distance	152	152	200	200	200	200	200	250	300	350	450	500	550