

## SALIENT FEATURES

- Full bore type
- Suitable for conductive liquids
- SS Coil Housing
- Power Supply 195 to 265V AC,50Hz
- Empty pipe indication
- Material option depending upon process data
- Local Indication through LCD
- Maintenance free
- Simple, cost effective, 100% metallic construction



## DESCRIPTION

Electronet series **ELMAG-2516** are micro-controller based full bore type electromagnetic flow meters specially used for various industrial applications. These flow meters accurately measure the flow rate of conductive liquids & slurries in closed pipes. Due to its simple & rigid design, the flow meter is an obstruction-less & maintenance-free instrument in place of conventional mechanical flow measuring devices. 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 electromagnetic 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 flow range.

## TECHNICAL SPECIFICATIONS

Media	: Liquids (Conductive)
Conductivity	: >5 $\mu$ s/cm
Viscosity	: 200 cp max
Line Size	: 15 NB to 200 NB
Excitation	: Pulsed DC coil
Type of Output	: 4 to 20mA DC
Display	: 16 x 2 LCD - 6 digit for Flow Rate & 9 digit for Totalizer Flow
Engineering Unit	: User Programmable (m <sup>3</sup> /hr by default)
Calibration Range	: As per requirement (Factory Calibrated for std. 2m/s velocity)
Accuracy	: +/- 0.5% of M.V. (for 20 to 100% flow)
Linearity	: +/- 0.5% of M.V.
Repeatability	: +/- 0.2% of M.V.
Temperature Coefficient	: +/- 0.05% per °C
Process Temperature	: 2 to 85° C max for Rubber Lining & 2 to 220°C for PTFE Lining
Process Pressure	: 10 kg/cm <sup>2</sup> max (higher on request)
Material of construction	: Lining - Neoprene Rubber / Hard Rubber / EPDM / PFA / PTFE Flange - MS / CS / SS316 Electrode - SS 316L/ Hastalloy C / Platinum / Tantalum Coil Housing - SS
Power Supply	: 195 - 265V AC, 50 Hz
Power Consumption	: < 10 VA
Isolation	: 1.4 KV between Input, Output & Power Supply
Response Time	: < 1 Sec
Electronics	: Local / Remote(10mtrs)
Transmitter Enclosure Protection:	IP66
Flow Tube Protection	: IP68
Process Connections	: ANSI150 flanged, as per table B 16.5 (Other On Requirement)
Mounting	: In-Line Horizontal / Vertical
Operating Conditions	: Temperature -20 to 75°C / Humidity 5 to 95% non condensing

Note :- For process conditions other than above please consult factory.

