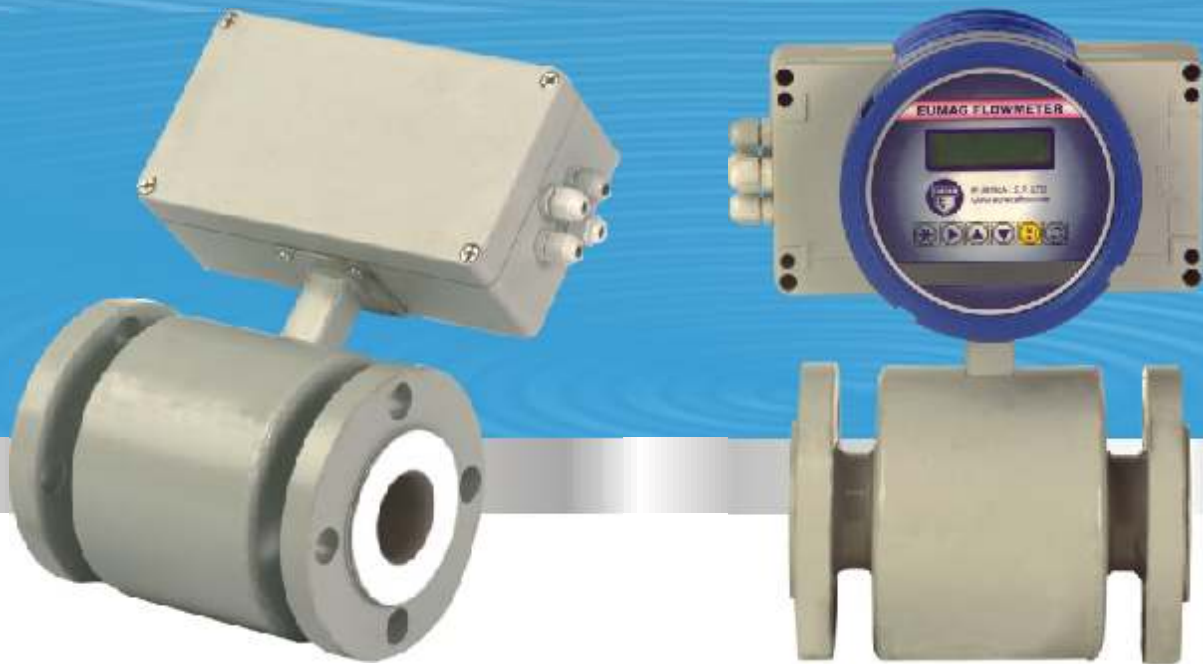




# EUREKA



## EUMAG SERIES MAGFLOW METERS



### **EUMAG Series Electromagnetic Flow Meters**

have a state of the art design and are full of novel features. They work on Faraday's Law of Electromagnetic Induction. The Flow Meter consist of a flow tube lined with insulating material, two electrodes mounted opposite each other and coils generating magnetic field. When a conductive medium flows through the magnetic field an emf is generated. This signal is amplified and processed by the Converter to give an output proportional to the fluid flow rate.

The basic unit which is a current output module is also fully and easily configurable unit. It thus includes features normally not available in analog units such as , Low flow cut-off,

programmable volume pulse output and ease in configuration of current output in desired engineering units. Configuration is done by using a PC based configurator which down loads the configuration through a serial port provided on the main board. Modular approach ensures easy upgradation.

The display unit is actually an advanced microprocessor unit which handle user interface, communication and data logging. Thus the advanced version can support communication protocols on RS485 half duplex bus such as MODBUS, PROFIBUS etc.

The Display can be rotated in desired angle to offer flexibility of viewing.

**EUREKA  
INDUSTRIAL  
EQUIPMENTS  
PVT. LTD.**

**REGD. & SALES OFFICE** : 17-20, 1st Floor, Royal Chambers, Paud Road, Pune - 411 038, Maharashtra, India.  
Tel: 0091-20-25443079, 25451314 Fax: 0091-20-25441323 Email: eurekaipmail@vsnl.net

**FACTORY** : 501, 'J' Block, M.I.D.C., Pimpri, Pune - 411 018. Tel: 0091-20-27460585, 306817 31 to 50  
Fax: 0091-20-27460586 Email: eurekamail@vsnl.net

**MUMBAI OFFICE** : Office No.116, Growmore Tower, 1st Floor, Plot No.5, Sector No.2, Kharghar, Navi Mumbai - 410 210. Mobile: 9322598274

**SERVICE CENTRE** : Eureka Hightech, 281/1, Plot No.38, Kasar Amboli, Tal. Mulshi, Pune-412 108 Tel: 020-22922170

## FEATURES

- High Accuracy & Stable Performance
- No Moving Parts
- Easy Installation and Operation
- Minimal Maintenance
- Microprocessor based designs offering exceptional configuration flexibility
- Basic model has isolated current output
- Programmable through PC by serial port even in basic model
- Easy programmability using Key Board on Alpha Numeric display
- Configuration personality stored in a pluggable Personality Module
- Advanced Model having advance features of :  
RS 485 communication, HART, Batching, special parameter indications of Temperature & Energy metering like Heating/Cooling
- Compact and rugged, IP 65 protection class
- The Display can be rotated in desired angle to offer ease in viewing
- Converter can be mounted away from the Sensor

## TECHNICAL DATA

### SENSOR

● <b>Technique</b>	Pulsed DC
● <b>Liquid conductivity</b>	5 Micro Siemens or better
● <b>Line size</b>	½" to 12" ( 10 nb to 300 nb)
● <b>Pressure rating</b>	Upto 40 bar
● <b>Temperature rating</b>	60 °c for Neoprene lining, 180 °c for PTFE lining
● <b>Lining material</b>	Neoprene, PTFE
● <b>Electrode material</b>	SS 316 L, Hastelloy C, Titanium, others on request
● <b>Protection category</b>	IP 65 (optional IP67)
● <b>Earthing electrode</b>	Built in (no need for earthing rings)

### CONVERTER

● <b>Accuracy</b>	+/-0.5% of flow rate or better
● <b>Velocity Ranges</b>	Programmable 0 + 2.5 m/s, 0 + 5 m/s, 0 + 10 m/s
● <b>Current Output</b>	4 to 20 mA isolated 600 Ohms load
● <b>Supply Voltage</b>	90 to 250 V AC, 10 VA 24 VAC / VDC 10 W
● <b>Ambient Temp.</b>	0 to 55°C Operation
● <b>Standard Version</b>	Flow Rate, Totalisation, Bidirectional Flow, Empty Pipe Detection, Zero & Span Adjustment, Relay Contacts
● <b>Display Version</b>	All the above features plus 16x2 backlit Display, 6 key membrane Keyboard, Serial Interface RS 232/RS 485 galvanically isolated for HART, MODBUS & Transmission, Data Logging, Batching function.