



FLOW MEASUREMENT & CONTROL INSTRUMENTS



**EUREKA
INDUSTRIAL
EQUIPMENTS
PVT. LTD.**

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Company Profile

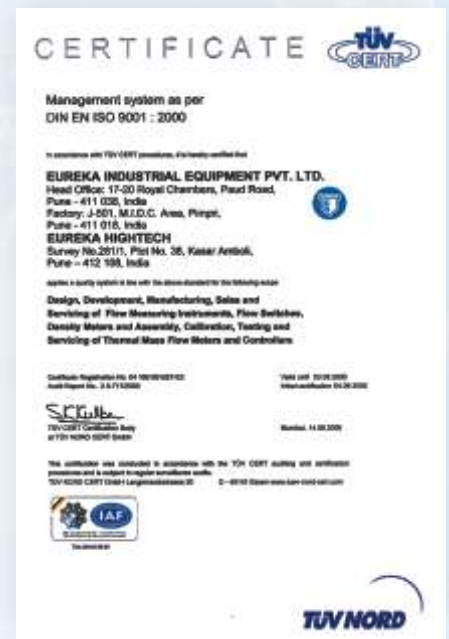
Eureka manufactures Flow Meters since 1970. The manufacturing Plant is spread over 4000 M2 near Pune and has well equipped Machining and Calibration Facilities.

We develop and manufacture instruments that are consistent in quality and designed as per the customer's requirements. All at the prices that represent the best value and lowest total cost of ownership.

Eureka's mission has always been to provide customers with the best measurement and control solutions. But Eureka is more than quality products. We are an organisation committed to excellence in every aspect of our relationship with the customer. Technical assistance and application expertise to help the customer in system design and product selection, excellent service support after sale. Eureka's focus is on continuous improvement and customer satisfaction. Some of our salient features are :

- ISO 9001 Quality Accreditation from TÜV NORD, Germany
- Manufacturing Experience of more than 3 decades
- Our USP is a good quality Product at attractive Prices
- Approvals from Leading Consultants and End Users
- Our products are very well appreciated in USA, UK, Europe, Australia, Singapore, Africa, Middle East, Far East, Indonesia, Philippines, Peru, Egypt, etc.
- Worldwide Network and Global Customer Base

While we have attempted to present our entire range of products, no brochure of this scope can include everything that we offer in full detail. As such we appreciate the opportunity to provide you with further information you need.



Variable Area Flow Meters



Glass Tube Flow Meters (Series 'PG') :

Suitable for in line installation with flanged or screwed connections with several options of materials for the wetted parts. Available in the sizes from 1/2" to 4". Available in various Scale lengths 175-200 mm, 250 mm, 500 mm to suit customer requirements.

Ranges : Between 2.5 to 40,000 LPH /
0.018 to 175.5 USGPM
of Water at Ambient Temp.
Between 0.1 to 300 NM³ / HR /
0.9 to 190 SCFM of Air at Ambient
Temperature 760 Torr

Accuracy : ± 2% of full flow.

Repeatability : 10:1

Accessories : High & Low Flow Alarms.

Loflo Meters (Series 'MG') :

Suitable for purging or low flowrate measurement. The standard mounting is 1/4" BSP / NPT rear, although several arrangement of Flanged or Hose pipe connection are offered on requests.

Ranges : Between 0.6 to 160 LPH / 0.003 to 0.7 USGPM of Water at Ambient Temperature. Between 1 to 5000 NLPH / 0.001 to 3.1 SCFM of Air at Ambient Temperature, 760 Torr.

Accuracy : ± 3% of full flow. / ± 5% of full flow

Standard Models are available with built in needle valve.

Accessories :

1. DP Regulator.
2. Panel Mounting Clamps.
3. High & Low Flow Alarms.

Special sterilizable Loflometer for Auto-clave applications is also available against specific enquiries.



Bypass Flowmeters (Series 'BPR') :

Suitable for measuring flowrates in 50 NB & above pipeline sizes. Available up to 450 NB line size in a variety of materials. Complete assembly consists of Orifice Plate, Carrier Rings, Impulse Tubing, Isolation Valves and Rotameter.

Ranges : Between 20 to 800 M³/HR of Water.
Higher flow and higher line sizes on request.

Accuracy : ± 2% of full flow

Accessories : High & Low Flow Alarms, Electronic Transmitter with 4-20 mA output.

Bypass Flowmeters with D & D/2 tappings as well as Flange tappings are available against specific enquiries.



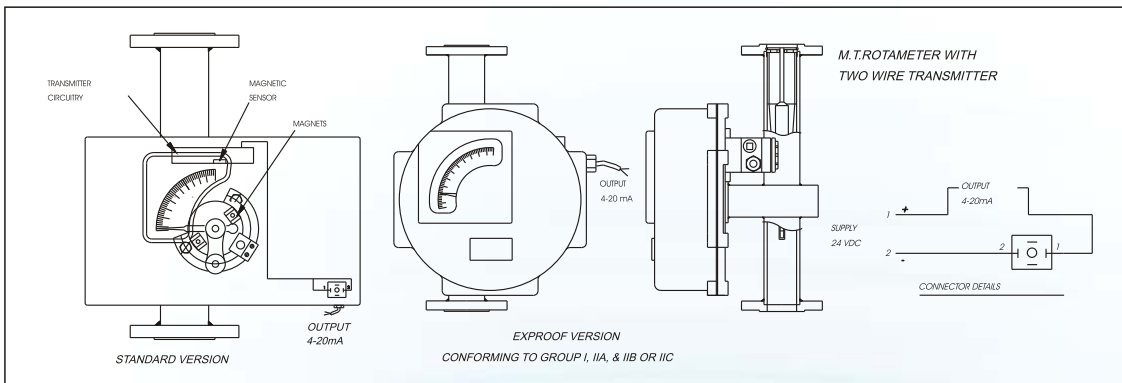
Variable Area Flowmeters with Transmitter

Metal Tube Flow Meter

Suitable for Flow Measurement of Translucent / Opaque Fluids and Fluids with high operating Pressure and Temperature.

Metal Tube Flow Meter With Transmitter

Eureka make Transmitter uses a unique magnetic sensor which is directly placed on the PCB. As the float moves in the taper tube the magnetic flux around the sensor changes in accordance with the float position. This change in magnetic flux causes the change in the output of the sensor. This output is amplified and linearised using microprocessor based circuitry to get standard loop powered 4-20 mA DC output.



Metal Tube Flow Meters (Series 'MTS') and (Series 'MT')

Ranges : Between 16 to 60000 LPH / 0.07 to 266 USGPM
Water at Ambient Temperature. Between 0.45 to 1450 NM³ / HR / 0.28 to 915 SCFM Air at Ambient Temperature, 760 Torr.

Flange to

Flange Distance : MTS 250 mm / 350 mm, MT 300 mm / 400 mm

- Accessories : 1) Electronic Transmitter with 4-20 mA Output, HART (optional)
2) Digital Flow Rate Indicator / Totaliser
3) Minimum or Maximum Flow Switch

Metal Tube Flow Meter (Series 'MTF')

PTFE lined Metal Tube Rotameter Flange to Flange Series 'MTF'

Ranges : Between 30 to 14000 LPH / 0.13 - 615 USGPM of Water at Ambient Temperature

Flange to

Flange Distance : 250 mm

- Accessories : 1) Electronic Transmitter with 4-20 mA Output, HART (optional)
2) Digital Flow Rate Indicator / Totaliser
3) Minimum or Maximum Flow Switch

Metal Tube Flow Meter (Series 'MMT' and 'MMMT')

Ranges : 1 to 100 LPH / 0.0044 to 0.44 USGPM
Water at Ambient Temperature

Accuracy : $\pm 5\%$ of Full Flow

- Accessories : 1) Electronic Transmitter with 4-20 mA Output, HART (optional)
2) Digital Flow Rate Indicator / Totaliser
3) Minimum or Maximum Flow Switch



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, HART, etc.

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



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 Pressure, 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 form the Sensor

● Accuracy	±0.5% of Flow Rate
● Technique	Pulsed DC
● Liquid Conductivity	5 Micro Siemens or better
● Line Size	½" to 12" (10 NB to300 NB)
● Pressure Rating	Upto 40 bar
● Temperature Rating	60 °C for Neoprene lining 180 °C for PTFE lining
● Lining material	Neoprene, PTFE, other on request
● Electrode material	SS 316, SS 316 L, Hastelloy-C, Titanium, other on request
● Protection category	IP 65 (optional IP67)
● Earthing electrode	Built in (no need for earthing rings)
● Velocity Ranges	Programmable 0+2.5 m/s, 0+5m/s, 0+10 m/s

Orifice Plates & Orifice Flange Assemblies

Orifice Flange Assemblies (Series 'OFA')



Orifice Plate alongwith Flanges in wide variety of materials for installation in 50 NW and above pipeline sizes are available.

Orifice plate is designed as per required standards. Flanges are machined to customer's specifications.



Orifice Plate Assembly With Meter Run

are manufactured as per relevant standards or customer's requirement.

Orifice Plates & Restriction Orifice Plates

Precisely machined from various materials as per standards required by the Customer. Sizes available - 50 NB onwards. Please contact us for lower sizes or special requirement.



Also available Flow Nozzles, Venturies designed as per customers requirement.

Integral Orifice Plate Assemblies

Integral Flow Orifice Assembly is used for the small bore pipe sizes of 2" & below.

At Eureka we have in house Calibration Facility for the calibration of Integral Orifice Assemblies that we manufacture.

These Integral Assemblies can be offered in CS, SS316, SS304 and other materials on specific request.



RESTRICTION ORIFICE PLATES to meet desired constant pressure drops & in various materials of construction are also available.

Specification :

Design : Conforms to ISA RP 3.2 , DIN 1952 , BS 1042, ISO 5167, ASME MFC - 3M

Types : Square edge concentric, Quadrant edged, Conical entrance, Eccentric, Segmental.

Plate Material : AISI SS 316 as standard. SS304, SS316L, Hastelloy-C , Monel , PP , PVC , PTFE coated , etc. can be given on request.

Flange Type : Weld neck, Slip on, Threaded, Socket welded with RF or RTJ facing Orifice flanges are in accordance with ASME B16.36 with minimum flange rating of 300# or male - female flanges in accordance with B16.5.

Flange Material : ASTM A 105 as standard, ASTM A182 F11, ASME ASTM A 350, ASTM A182 F316, ASTM A182 F304, ASTM A 182 F 316L, ASTM A 182 F 304L, FRVE etc.

Pressure Tappings : Corner tappings are recommended for sizes upto 1 1/2"; Flange taps from 2" to 16" ; D - D/2 taps for higher sizes.

Eurekone Flowmeter

Eurekone Differential Pressure Element

Eureka make Eurekone flowmeter is the latest conception in the family of differential pressure type devices. The special integral construction makes it suitable for any service like gas, liquid, steam slurry etc. The pressure difference between the static line pressure & lower pressure created just after the cone can be measured via two pressure sensing taps, one placed slightly upstream of the Eurekone Flowmeter and the other on the downstream face of the Eurekone Flowmeter itself and is related to the flow rate through the Meter. Along with DP Transmitter the system is ideal for Automation, Totalization, Batch / Rate control.

Features

Various materials of construction.

Wide flow rangeability.

Very low pressure drop.

Suitable for pipe size of 3/4" to 6"

Short upstream and downstream straight lengths requirement

Power supply required for DPT-24 VDC.

Output 4-20 mA two wire system.

Available in Ex-proof versions also.

Accuracy : $\pm 1\%$ of actual flow rate or better

Repeatability : $\pm 0.1\%$



Mass Flow Meters & Controllers

Manufactured by BRONKHORST HIGHTECH, NETHERLANDS



EL-FLOW

Mass Flow Meters and Controllers for gas applications with an electronic housing suitable for laboratory conditions. EL-FLOW® series instruments are truly unique in their capability to control flow ranges between 0...1 mln/min and 0...1250 l/min with pressure rating ranging between vacuum and 400 bar - all in one range of instruments. This versatility in flow ranges and in operating conditions has ensured that the EL-FLOW® series remains our most popular and field proven of instruments. These have a fast response and a high accuracy: $\pm 0,5\%$ of reading + $\pm 0,1\%$ of F.S., analog and digital [fieldbus] communication.

Some of the Models are assembled and Calibrated by Eureka



IN-FLOW

IN-FLOW series Mass Flow Meters / Controllers for gas applications (Flow ranges between 0...15 mln/min and 0...11000 nm³/hr Air) have a rugged design and suitability for industrial environments. The electronics housing is rated to IP65 and is suitable for use in Zone 2. (ATEX approved). These also have analog and digital (fieldbus) communication.



μ

Mass Flow Meters and Controllers for liquids flow ranges between 0...30 mg/h and 0...20 kg/h (Water equivalent). LIQUI-FLOW® has a fast and accurate measuring signal, analog (models L1/L2) and digital (models L10/L20/L30) versions available. These are insensitive to mounting position



CORIOLIS MASS FLOW

CORI-FLOW® utilizes a patented, advanced Coriolis type mass flow sensor to achieve unsurpassed performance, even with changing operation conditions in pressure, temperature, density, conductivity and viscosity. CORI-FLOW® is offered with or without an integral control valve but with both analog and digital communications. Flow ranges available between 0...200 g/hr and 0...600 kg/hr. These have a fast response time, high accuracy (up to $\pm 0,1\%$ FS plus 0,2% of reading), IP65 housing with optional ATEX Zone 2 approval.



EX - FLOW

EX-FLOW series Mass Flow Meters / Controllers are recommended for gas applications [flow ranges between 0...7.5 mln/min, and 0...11.000 nm³/hr Air] requiring rugged design and suitability for hazardous areas. The electronics housing is rated to IP65 and approved according to ATEX with the classification II 2 G EEx ib IIC T4.



MASS - STREAM FLOWMETERS & CONTROLLERS

Manger + Wittman (subsidiary of Bronkhorst High - Tech) make Mass Stream Flowmeters & Controllers for gases have a unique, all AISI SS 316 sensors with low pressure drop and fast response, measuring up to 2000 l / min (Air) & economically priced.



ULTRASONIC FLOWMETERS

KATRONIC make portable and field mounted Ultrasonic Flowmeters for liquids have easy to clamp on sensors with no process interruption, no pressure loss, fast and accurate, with diameters from 10 mm to 6.5 m. Can be used up to 4 independent flow channels. For more details please visit : www.katronic.co.uk

EUREKA'S GLOBAL NETWORK



■ **Distributors in the following Countries:**

USA, UK, Taiwan, Qatar, Australia, Philippines

■ **Customers in the following Countries:**

Singapore, Indonesia, Belgium, Peru, Oman, UAE, Malaysia, Thailand, Sri Lanka
Nepal, Bangladesh, Kenya, USA, UK, Australia, Taiwan, Egypt, Qatar, Saudi Arabia