



Measuring & Beyond



MIAL INSTRUMENTS PVT. LTD.

 www.mialinstruments.com





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MIAL INSTRUMENTS -Measuring and beyond: Measurement in every application is important for the process optimization, safety and environmental protection and that is the reason behind the establishment of MIAL INSTRUMENTS. We as a manufacturer can offer wide varieties of flow/energy measuring technologies/principles-based instruments with excellent after sales services, as a single technology cannot satisfy the measurement needs of industrial and commercial applications. Being a one stop solution provider for all your HVAC, flow entire measurement and instrumentation needs, MIAL INSTRUMENTS is committed to provide an advanced, state-of-the-art renewable solutions that are committed to satisfy even the most unique and specific needs of the global customers.

MIAL INSTRUMENTS is been equipped with advanced design capabilities and has piled up a wealth of field application experience, which lays a solid foundation for the commitment to the promotion and innovation of high-tech system solution. The company has devoted to the production of HVAC/flow/energy measurement instruments with superior performance, high stability and strong reliability. Best quality products with the best service is our motto, this helps in making the instrumentation and measuring technology selection,purchase,installation and operation easy for our valued customers.

We understand that the path to energy sustainability is a journey and not an event, managing energy costs and usage is the key to long-term achievement and a major part of virtue in every organization's operational budget. MIAL INSTRUMENTS products are developed and designed inline with today's need of energy optimization.

Our Range Of Products:

INSTRUMENTATION & CONTROLS DIVISION

INLINE ELECTROMAGNETIC FLOW/HEAT (BTU) METERS
CLAMP ON ULTRASONIC FLOW/HEAT (BTU) METERS
PORTABLE CLAMP ON ULTRASONIC FLOW METERS
THERMAL GAS MASS FLOW METERS
VORTEX FLOW METERS
ULTRASONIC WATER/LIQUID LEVEL SENSORS
IN LINE TURBINE FLOW METERS
VARIABLE AREA FLOW METERS
OVAL GEAR FLOW METERS
CORIOLIS MASS FLOW METERS

HVAC DIVISION

ROOM PRESSURE MONITORS





MEF 2100/MEF(B) 2100 INLINE ELECTROMAGNETIC FLOW/HEAT(BTU) METERS -is based on Faraday's law of electromagnetic induction, used to measure the conductance greater than $5 \mu\text{S} / \text{cm}$ volume of conductive liquid flow. In addition to measuring the general volume of conductive liquid flow, it can also be used to measure strong acid, alkali and other strong corrosive liquids and mud, pulp, and other liquid-solid two-phase suspension of uniform volume flow.

MEF 2100 (B)heat/cold meter is used for thermal energy calculation using electromagnetic flow meters and Pt1000 temperature sensors.



MUF 1000 PORTABLE CLAMP ON ULTRASONIC FLOW METER (HANDHELD)

It works on transit-time Ultrasonic Technology. The clamp on ultrasonic transducers(sensors) are mounted on the external surface of the pipe for non-invasive and non-intrusive flow measurement of liquid in fully filled pipe.

This unique flow meter can be hand-held and operated with ease. This flexible and easy to use flow meter is the ideal tool for the support of service and maintenance activities.It can also be used for the control or even for the temporary replacement of permanently installed meters.

MUF 1200 CLAMP ON ULTRASONIC FLOW/HEAT (BTU) METERS (WALL MOUNT)

–it works on the transit time ultrasonic technology .The clamp-on ultrasonic transducers (sensors) are mounted on the external surface of the pipe for non-invasive and non-intrusive flow measurement of liquid in fully filled pipe. It's thermal energy measurement capability using a clamp on temperature sensors makes it possible to carry out a complete analysis of thermal energy usage in any facility.





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MTF 500 INLINE & MTF 600 INSERTION THERMAL GAS MASS FLOW METER -Thermal gas mass flow meter is designed on the basis of thermal dispersion, and adopts a method of constant differential temperature for measuring gas flow. These meters are used for measuring the mass flow or volume flow of gas. These meters are configured with RS485 or HART interface to realize factory automation and integration. The insertion sensor of compact insertion flow meter should be inserted to the axis of the pipe, and the length of the insertion sensor is decided by pipe size.

MVF 300 VORTEX FLOW METER- Vortex flow meter is one kind of speed type flow meter, based on the Karman Vortex Theory. It adopts piezoelectric crystal to detect the burble frequency of the fluid caused by flowing through the triangular prism in the pipeline and then measures the flow of fluid. It is widely used in petrol, chemical industry, light industry and power heat supply and so on.



MBF 700 TURBINE FLOW METER is characterized by simple structure, high precision and easy installation and repair. The product can be used in a wide range of industries, including oil industry, chemical industry, metallurgy, water supply, paper-making, environment protection and food industry.

MUL SERIES ULTRASONIC LEVEL SENSORS- The series is a compact ultrasonic level meter for continuous non-contact level measurement in liquids. It consists of probe and electronic units, both of which are leak-proof structures. This series can be widely applied to the metallurgical, chemical, electricity and oil industries. Remote version ultrasonic level meter consists of level meter's electronic unit (parameters, display and the signal output) and Ultrasonic probes; where both are connected via cables. The Ultrasonic probe is installed in the upper level of the tank whereas the electronic unit user can choose the installation location in order to facilitate observation and operation.





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MCF 800 CORIOLIS MASS FLOW METERS are the leading precision flow and density measurement solution offering the most accurate and repeatable mass measurement for liquids or slurries.



MAF 900 VARIABLE AREA intelligent metal tube flow meter is based on the floater position measurement. It has features like full metal structure, low pressure loss, big range ratio, optional transmitter with HART communication function. It is widely used in the various industries under complex and bad environment. It uses to measure the flow and controlling the process to the small flow and low velocity in all kinds of harsh conditions of medium..

MOF 200 OVAL GEAR FLOW-METER is one of positive displacement flow meter and is mainly composed of meter shell, oval gear rotor and converter. It has good performance on measuring high-temperature and high-viscosity liquids. It is applicable to the calibration and metering of crude oil, chemical, chemical fiber, traffic, commerce, food, medicine and health, scientific research and military etc.



MIRM ROOM PRESSURE MONITORS –These units are used in hospitals or clean room applications for monitoring room pressure / temperature / humidity.



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