

# MIM



## Electromagnetic Flowmeter



# NEW

- Flow and Temperature Measurement
- For Monitoring, Transmitting, Batching
- Bi-directional Measurement
- Rugged Stainless Steel Construction
- 2 Configurable Outputs





The new **MIM** electromagnetic flowmeter measures and monitors small to medium sized flow of conductive liquids in pipes. According to Faraday's Law of magnetic induction, a voltage is induced in a conductor moving through a magnetic field. The electrically conductive measured media acts as the conductor. The voltage induced in the measured media is proportional to the flow velocity and is therefore a value for the volumetric flow. The induced voltage is detected by two sensing electrodes which are in contact with the measured media and sent to an integral amplifier. The flow rate is calculated based on the cross sectional area of the pipe. The measurement does not depend on the process liquid and its properties, such as: density, viscosity and temperature. The two outputs can be independently set to switch, or provide an analog or frequency output. A batching function can also be selected, where output 1 is set to switch as NPN/PNP/PP and output 2 is set as the control input.

# MIM



- Flow and Temperature Measurement
- For Conductive Liquids
- For Monitoring, Transmitting, Batching
- Bi-directional Measurement
- Rugged Stainless Steel Construction
- Intuitive Setup via Optical Touch Keys
- Display can be Used with Gloves
- Configurable, Multi-parameter TFT Display that Rotates in 90° Increments
- Can Be Mounted in Any Position
- Grand and Resettable Totalizer
- 2 Configurable Outputs:  
0-10 V<sub>DC</sub> Analog, 4-20 mA Analog, NPN/PNP/PP Switch, Pulse Output PP, or Frequency Output PP
- Compact Design:  
2.83" Wide x 2.68" High x 2.68" Deep

Rotatable Display



Flow Ranges: 0.48...48 GPH to 0.4...90 GPM

Temperature Measurement: PT 1000

$P_{\max}$ : 230 PSI;  $T_{\max}$ : 158 °F

Max Media Viscosity: 70 cSt

Variety of Fitting Types, Sizes, and Materials

Accuracy:  $< \pm$  (0.8% of Reading + 0.5% of FS)

Repeatability:  $\pm$  0.2% of FS

Fitting/Housing/Electrodes Material: 316L SS

Seal Material: FKM / Insulation Material: PEEK

Protection: IP67

## Bi-directional Measurement





# When Quality Counts, Count on KOBOLD

**KOBOLD Instruments Inc:** For more than 35 years, KOBOLD has been a world leader in process measurement and control solutions. We offer one of the industry's broadest lines of sensors, switches, and transmitters to measure and control flow, pressure, level, and temperature. The **KOBOLD** brand is synonymous with quality, craftsmanship, technological advancement, and cost effectiveness. Our engineers and customer service representatives are ready to help you find the ideal **KOBOLD** solution for your most demanding applications.

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