

DMI MAGNETIC INDUCTIVE FLOWMETER



Flow
Pressure
Level
Temperature
measurement
monitoring
control



- **Measuring Ranges: 0.7-10 Through 25-320 GPM**
- **PEEK or PVDF Body**
- **LCD Rate/Total Display**
- **Accuracy: $\pm 3\%$ of Reading, $\pm 1.5\%$ Optional**
- **Fully Flexible, Menu-Driven**

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Model:
DMI



Features

- Measuring Ranges: 0.7-10 Through 25-320 GPM
- PEEK or PVDF Body
- LCD Rate/Total Display
- Accuracy: $\pm 3\%$ of Reading, $\pm 1.5\%$ Optional
- Fully Flexible, Menu-Driven

The KOBOLD series DMI operates on the magneto-inductive principle. With no protrusions into the pipe, conductive liquids and slurries can be measured with virtually no system pressure loss. The DMI is available with a PEEK or PVDF flow tube and Hastelloy C measuring electrodes are standard. These features make the DMI series light-weight, economical and suitable for many types of chemical solutions and aggressive media. The DMI series has no moving parts and is therefore virtually maintenance free. The electronics package includes an LCD rate/total display which is switchable from U.S. to metric units. The standard open collector output is configurable as a pulse flowrate transmitter or alarm switch. An optional 4-20 mA flow rate transmitter is also available. Setup is easy with menu-driven programming which can be set by the user in one of seven different languages.



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Specifications

Body Material

3/8" through 1" diameter: PEEK
2" diameter: PVDF
Electrodes: Hastelloy C
Max. Pressure: 145 PSIG
Temperature: -30°F...+230°F
Conductivity: $> 50\mu\text{S}/\text{cm}$
Minimum Inlet and Outlet Straight Pipe Req: 10 x D inlet
5 x D outlet

Accuracy: (for $> 0.07 \times Q_{\text{max}}$)
 $\pm 3\%$ of measured value
 (Option: $\pm 1.5\%$ of measured value)
Repeatability: $< 0.2\%$ of measured value

Creep Suspension: Adjustable 0-10% of measuring range

Response Time: 0-99% jump > 5 sec. minimum. setable between 5-40 sec.
Protection: NEMA 4X/IP 65

Electronics Power Supply: 18-30 VDC or 18-26 VAC
2-line LCD

Display: Electrical Connections: Hirschmann plug acc. to DIN 43650
Pulse Output: 1 pulse/gallon(liter) fixed set.
Pulse Width: 20 msec
Pulse Frequency: Max. 20 Hz

Output

DMI-...A...

The optocoupler output can be set via display as a pulse output or as an alarm switch.

DMI-...B...

Additional 0/4...20 mA scalable output (optional)

Programmable Features

- Language (7 Available)
- Open Collector Function (Flow Transmitter or Switch)
- Switch Setpoint
- Delay Time
- Creep Suspension
- 0(4)-20 mA Transmitter Span (Optional)
- Measuring Units



Programmable Features

- Language (7 Available)
- Open Collector Function (Flow Transmitter or Switch)
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Applications

- For conductive liquids and slurries which are compatible with wetted parts.

DMI Magnetic Inductive Flowmeter

Ordering Information

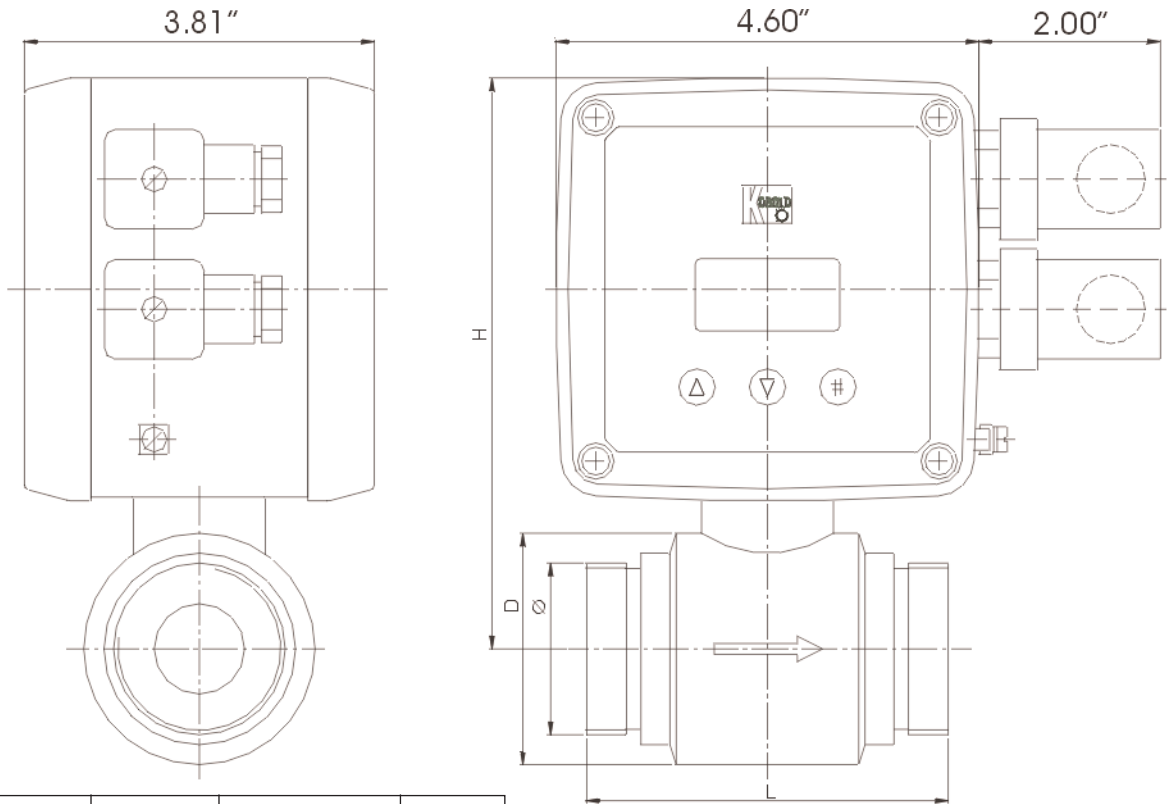
Range (GPM)	Body Material	Base Model	Process Connection	Flow Tube Diameter*	Output	Power Supply	Options
0.7 to 10	PEEK	DMI-2002...	..N20..=3/4 NPT	3/8"	..A..=Pulse or alarm ..B..=Pulse or alarm and (0) 4-20 mA Output	..3..= 24 VDC/VAC	...0=none ...G=1.5% of measuring value
2 to 25	PEEK	DMI-2004...	..N20..=3/4 NPT	1/2"			
6 to 80	PEEK	DMI-2006...	..N32..=1-1/4 NPT	1"			
25 to 320	PVDF	DMI-2508...	..N65..=2-1/2 NPT	2"			

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Example: DMI-2302 N20 A30

* In order to meet the DMI series straight piping requirements, the inlet and outlet piping should be the same nominal I.D. as the flow tube diameter for the model selected. Reducers can be used at the inlet and outlet fittings to adapt to the larger process connections.

DIMENSIONS



Type	L	D	φ	H
DMI-...02	3.3	2.1	3/4" NPT	5.9
DMI-...04	3.3	2.1	3/4" NPT	5.9
DMI-...06	3.9	2.5	1-1/4" NPT	6.3
DMI-...08	5.1	3.6	2-1/2" NPT	6.9