



Magnetic-Inductive Flow Meter / Monitor / Totalizer for Conductive Liquids



measuring
•
monitoring
•
analysing



- Measuring range:
0 ... 50 to 0 ... 1200 L/min
- Pressure: max. 10 bar
- Temperature: max. 110 °C
- Measuring accuracy:
± 1.5% of measured value
- Connection:
G 3/4... G 2 1/2 male
3/4 NPT... 2 1/2 NPT
- Materials:
Measuring tube: PEEK or PVDF
Seals: FPM
Electrodes: Hastelloy C

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Model:
DMI



Description

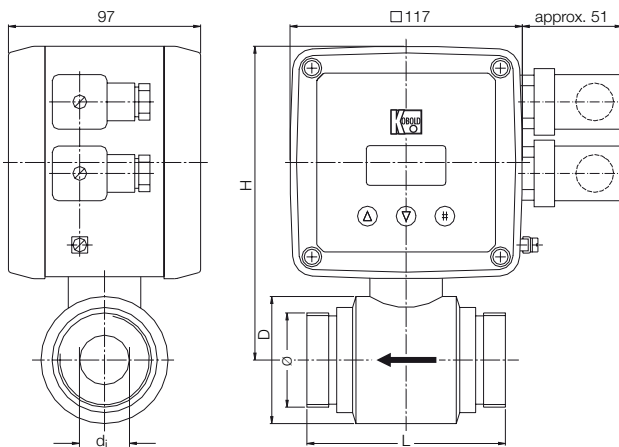
The KOBOLD flow meter model DMI uses the magnetic inductive method of measurement, that is electrical conductive liquids can be measured with negligible pressure losses. A very reasonably-priced flow meter, with no moving parts, has been built with optimal design and the use of plastic. The use of plastics PEEK means that the device is ideally suited for a wide range of applications in the chemical industry.

Typically, model DMI is fitted with an LCD display on which the instantaneous and totalized flow can be read simultaneously. Easy maintenance, no additional pressure loss, small size and negligible weight are the main features of this flow meter.

Fields of application

for all conductive liquids.

Dimensions



Model	di	L	D	Ø	H
DMI-...02	10	85	53	G ¾	150
DMI-...04	15	85	53	G ¾	150
DMI-...06	25	100	64	G 1 ¼	159
DMI-...08	50	130	92	G 2 ½	175

Technical details

Materials

- Tube: PVDF or PEEK
- Electrode material: hastelloy C
- Grounding electrode: hastelloy C
- O-Ring: FPM, only G-thread, frontal
- Max. pressure: 10 bar (see PT diagram)
- Temperature: -10°C...+110°C (see PT diagram)
- Electr. conductivity: min. 50 µS/cm
- Inlet and outlet pipe straights: 3 x DN upstream of device (recom.)
2 x DN downstream of device
- Accuracy: ± 1.5 % of meas. value (Q > 7 % f.s.)
± 0.105 % f.s. (Q ≤ 7 % f.s.)
- Repeatability: ≤ 0.2 % of measured value
- Creep value: adjustable 0-10 % of adj. meas. range (switching hysteresis 1 %)
- Settling time: 0-99 % step change ≥ 5 s
adjustable between 5-40 seconds
- Protection: IP 65, EN 60529

Electronics

- Supply voltage: 16.8-31.2 V_{DC} or 16.8-26.4 V_{AC}
- Rating: < 5 W
- Display: LCD, LCD, 3 x 7 line (97 x 32 dots)
instantaneous value & totalizer)
- Electrical connection: connector DIN 43650
- Pulse output: 0.01 / 0.1 / 1 / 10 / 100
pulses / litre (gallon) adjustable
- Pulse width: min. 20 ms; max. 2550 ms
- Pulse frequency: max. 20 Hz
- Direction of flow: selectable (menu setting)
- Mounting position: any, display 90° rotatable

Output

DMI-...A...

The optocoupler output can be programmed from the display as a pulse output or alarm output.

DMI-...B...

Additional adjustable current output 0/4 to 20 mA
Max. load: 600 Ω



Order details (example: DMI-2502 R20 A 3 0)

Meas. range (L/min) app. 0...10 m/s	d _i Internal Ø (mm)	Order no. PVDF	Connection	Output	Supply voltage	Option
0...50	10	DMI-2002... (PEEK)	..R20.. = G 3/4 ..N20.. = 3/4 NPT	..A.. = Pulse or alarm ..B.. = Pulse or alarm and (0) 4-20 mA output	..3.. = 24 V _{DC} /V _{AC}	...0= without ...G=with 3-point cal. report
0...100	15	DMI-2004... (PEEK)	..R20.. = G 3/4 ..N20.. = 3/4 NPT			
0...300	25	DMI-2006... (PEEK)	..R32.. = G 1 1/4 ..N32.. = 1 1/4 NPT			
0...1200	50	DMI-2508... (PVDF)	..R65.. = G 2 1/2 ..N65.. = 2 1/2 NPT			

Accessories for DMI

Order details (example: DMI-Z2 R20)

Stainless steel thread adapter	
G 3/4 to G 1 male thread	DMI-Z2 R20
G 1 1/4 to G 1 1/2 male thread	DMI-Z2 R20
G 2 1/2 to G 2 3/4 male thread	DMI-Z2 R20

p/T-Rating for DMI PVDF DN 10 to DN 50

