



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 meas. value
- Connection:
G 3/4 to G 2 1/2 male thread
3/4 NPT to 2 1/2 NPT
- Materials:
PEEK or PVDF-measuring tube
Hastelloy C, FPM seal



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Model:
DMI



Description

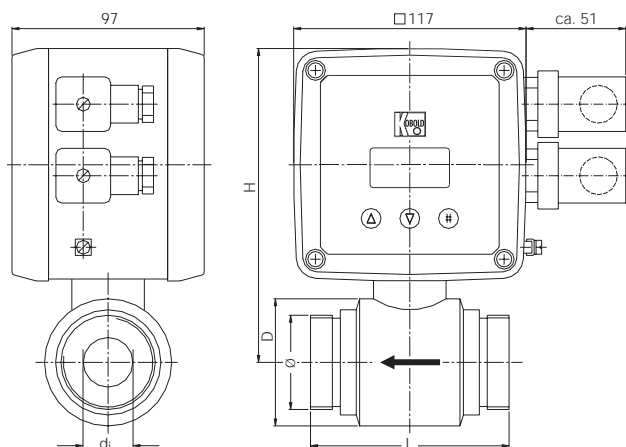
The KOBOLD flow meter model DMI uses the magnetic inductive method of measurement, that is electrical conductive liquids can be measured with negligible pressure losses. A very reasonably-priced flow meter, with no moving parts, has been built with optimal design and the use of plastic. The use of plastics PEEK and PVDF 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 electrical conductive liquids.

Abmessungen



Model	d _i	L	D	Ø	H
DMI-...02	10	85	53	G 3/4	150
DMI-...04	15	85	53	G 3/4	150
DMI-...06	25	100	64	G 1 1/4	159
DMI-...08	50	130	92	G 2 1/2	175

Technical details

Materials

- Tube: PEEK (DN 10-25); PVDF (DN 50)
- Electrode material: hastelloy C
- Grounding electrode: hastelloy C
- O-ring seal: FPM , only G thread, front wall
- Max. pressure: 10 bar (see PT diagram)
- Temperature: -10 °C to +110 °C (see PT diagram)
- Electrical 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% of f.s.)
± 0.105% f.s. (Q ≤ 7% of f.s.)

- Repeatability: ≤ 0.2 % of meas. 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, 3 x 7 digit (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. burden: 600 Ohm



Ordering code (ordering example: DMI-2002 R20 A 3 0)

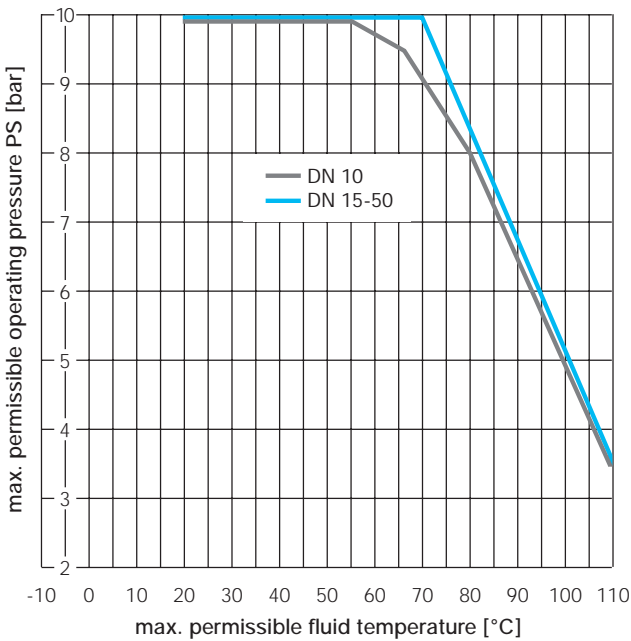
Measuring range (L/min) approx. 0-10 m/s	d _i Inside Ø (mm)	Order no. (material)	Connection	Output	Supply voltage	Option
0...50	10	DMI-2002... (PEEK)	..R20.. = G 3/4 ..N20.. = 3/4 NPT	..A.. = pulse or alarm ..B.. = pulse or alarm and (0) 4-20 mA output	..3.. = 24 V _{DC} /V _{AC}	...0= without ...G= 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:

Ordering code (ordering example: DMI-Z2 R20)

Thread adapter from st. steel	
3/4" to 1" male thread	DMI-Z2 R20
1 1/4" to 1 1/2" male thread	DMI-Z2 R32
2 1/2" to 2 3/4" male thread	DMI-Z2 R65

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



Please refer to our brochure "N2"...



...for Level Measurement