DATASHEET MVM-002-PN

MAG-VIEW MVM-002-PN

Low-Flow Magnetic Inductive Flow meters for water-like liquids

MASSFLOW-ONLINE PRODUCT



Electromagnetic flow meters for low flow rates of water and aqueous solutions

MAG-VIEW instruments are electromagnetic inductive flow meters for electrically conductive liquids with a minimum conductivity of 50 µS/cm. The compact, weatherproof (IP65) flow meters do not contain any moving parts, cause virtually no pressure loss and can be mounted in any position, requiring no straight inlet or outlet runs.

MAG-VIEW flow meter model MVM-002-PN has a nominal diameter of DN2 for flow rates of 0,05...2 l/min, suited for operating pressures up to 16 bar(g). The pulse output of the instrument is proportional to the flow.

Technical specifications

Measurement / control system

Flow rates	0,05 … 2 l/min
Volume flow accuracy	±1% RD at 0...50% of measuring range ±2% RD at 50...100% of measuring range (incl. factory calibration certificate; test conditions: water 23°C)
Turndown ratio	1:40
Reproducibility	1 % FS
Signal output starting from	~ 0,05 l/min
Media	Water and other conductive liquids (minimum conductivity of 50 µS/cm)
Response time (sensor)	< 500 msec
Medium temperature	-20 … 90 °C
Mounting	Any position, attitude insensitive
Flow indication	green LED, flow proportional flashing

Mechanical parts

Material (wetted parts)	Electrodes: Stainless Steel 1.4571 Process connections: Stainless Steel 1.4571 Measuring pipe: PEEK-GF30 Gasket: EPDM
Housing	Aluminium pressure diecasted
Diameter	DN2

Mechanical parts

Process connections	1/4" BSP male thread
Ingress protection	IP65
Nominal pressure	PN16

Electrical properties

Power supply	24 Vdc ±10 %
Max. power consumption	≤ 150 mA
Frequency output	Pulse rate / K-factor : 10000 pulses/l Resolution : 0,1 ml/pulse Signal shape : Square wave signal - duty cycle 50:50 Push-Pull - NPN open collector [o.c.] - PNP o.c. Signal current : max. 100 mA, current limited
Electrical protection measures	Short-circuit proof, protected against polarity reversal
Electrical connection	5-pin-plug M12x1

Electrical connection

Control valve options

External actuator options to be connected to the controller

Ex-proof specifications

Approvals / certificates

Technical specifications subject to change without notice.

For dimensional drawings and hook-up diagrams please visit the product page on our website

Related products



MAG-VIEW MVM-001-PN

- Flow range 0,0083 ... 1 l/min
- Pressure rating 16 bar
- Non-obstructive; low ΔP
- No moving parts; long life cycle
- Pulse output



MAG-VIEW MVM-002-PA

- Flow range 0,05 ... 2 l/min
- Pressure rating 16 bar
- Non-obstructive; low ΔP
- No moving parts; long life cycle
- Analog/Pulse output



MAG-VIEW MVM-002-QA

- Flow range 0,1 ... 2 l/min
- Pressure rating 10 bar
- Non-obstructive; low ΔP
- No moving parts; long life cycle
- Cost-optimized (plastic) model



MAG-VIEW MVM-030-PN

- Flow range 0,5 ... 30 l/min
- Pressure rating 16 bar
- Non-obstructive; low ΔP
- No moving parts; long life cycle
- Insensitive to contamination

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