

DATASHEET MVM-250-PA

MAG-VIEW MVM-250-PA

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-250-PA has a nominal diameter of DN20 for flow rates of 5...250 l/min, suited for operating pressures up to 16 bar(g). The instrument allows frequency and analog output (4...20 mA) proportional to the flow.

Technical specifications

Measurement / control system

| | |
|-----------------------------|---|
| Flow rates | 5 ... 250 l/min |
| Volume flow accuracy | ± 1,5 % RD ±0,3% FS (incl. factory calibration certificate; test conditions: water 23°C) |
| Turndown ratio | 1:50 |
| Reproducibility | 1 % FS |
| Signal output starting from | ~ 4 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 | DN20 |
| Process connections | 1" BSP male thread |

Mechanical parts

| | |
|--------------------|------|
| Ingress protection | IP65 |
| Nominal pressure | PN16 |

Electrical properties

| | |
|------------------------|---|
| Power supply | 24 Vdc \pm 10 % |
| Max. power consumption | \leq 150 mA |
| Frequency output | Pulse rate / K-factor : 100 pulses/l Resolution : 10 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 |
| Output signal | 4...20 mA, max. load 250 Ω to GND |
| 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-060-PA

Flow range 0,2 ... 60
l/min
Pressure rating 16 bar
Non-obstructive; low ΔP
No moving parts; long
life cycle
Analog/Pulse output



MAG-VIEW MVM-200-QA

Flow range 10 ... 200
l/min
Pressure rating 10 bar
Non-obstructive; low ΔP
No moving parts; long
life cycle
Cost-optimized (plastic)
model



MAG-VIEW MVM-250-PN

Flow range 5 ... 250 l/min
Pressure rating 16 bar
Non-obstructive; low ΔP
No moving parts; long
life cycle
Insensitive to
contamination



MAG-VIEW MVM-250-QA

Flow range 12,5 ... 250
l/min
Pressure rating 10 bar
Non-obstructive; low ΔP
No moving parts; long
life cycle
Cost-optimized model