# MAG-VIEW MVM-030-PN

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

- Compact, weatherproof (IP65) design
- No moving parts (no mechanical wear)
- Interference free operation
- Independence to inlet/outlet pipework
- Fast response
- Free pipe cross section: low  $\Delta P$ , insensitive to contamination

#### 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-030-PN has a nominal diameter of DN7 for flow rates of 0,5...30 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                  | 0,5 30 l/min   |
|-----------------------------|--|
| Volume flow accuracy        | $\pm$ 1,5 % RD + $\pm$ 0,3% FS<br>(incl. factory calibration certificate; test conditions: water 23°C) |
| Turndown ratio              | 1:60   |
| Reproducibility             | 1 % FS   |
| Signal output starting from | ~ 0,4 l/min  |
| Media                       | Water and other conductive liquids<br>(minimum conductivity of 50 μS/cm)                               |
| Response time (sensor)      | < 500 msec   |
| Medium temperature          | 590 ℃  |
| Mounting                    | Any position, attitude insensitive   |
| Flow indication             | green LED, flow proportional flashing  |

### **Mechanical parts**

| Material (wetted parts) | Electrodes: Stainless Steel 1.4571<br>Process connections: Stainless Steel 1.4571<br>Measuring pipe: PEEK-GF30<br>Gasket: EPDM |
|-------------------------|--|
| Housing                 | Aluminium pressure diecasted   |
| Diameter                | DN7  |
| Process connections     | ½" 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 : 1000 pulses/l                    |
|                                | Resolution : 1,0 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   |

Technical specifications subject to change without notice.

\* Test conditions Water 23℃

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

### **Related products**



### MAG-VIEW MVM-020-QA

Flow range 1 ... 20 l/min Pressure rating 10 bar Non-obstructive; low  $\Delta P$ No moving parts; long life cycle Cost-optimized (plastic) model



### MAG-VIEW MVM-030-PA

Flow range 0,5 ... 30 l/min Pressure rating 16 bar Non-obstructive; low  $\Delta P$ No moving parts; long life cycle Analog output



### MAG-VIEW MVM-050-QA

Flow range 2,5 ... 50 l/min Pressure rating 10 bar Non-obstructive; low  $\Delta P$ No moving parts; long life cycle Cost-optimized (plastic) model



#### MAG-VIEW MVM-060-PN

Flow range 1 ... 60 l/min Pressure rating 16 bar Non-obstructive; low ΔP No moving parts; long life cycle Insensitive to contamination



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