# DATASHEET MVM-001-PA

# MAG-VIEW MVM-001-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  $\mu$ S/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-001-PA has a nominal diameter of DN2 for flow rates of 0,0083...1 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	0,0083 1 l/min
Volume flow accuracy	±1% RD at 050% of measuring range ±2% RD at 50100% of measuring range (incl. factory calibration certificate; test conditions: water 23°C)
Turndown ratio	1:120
Reproducibility	1 % FS
Signal output starting from	~ 0,005 l/min
Media	Water and other conductive liquids (minimum conductivity of 50 $\mu$ S/cm)
Response time (sensor)	< 500 msec
Medium temperature	-20 90 ℃
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**

24 Vdc ±10 %
≤ 150 mA
$420$ mA, max. load $250\Omega$ to GND
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
Short-circuit proof, protected against polarity reversal
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 <u>product page</u> on our <u>website</u>

# **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  $\Delta P$ 

No moving parts; long

life cycle

Analog/Pulse output



#### MAG-VIEW MVM-002-PN

Flow range 0,05 ... 2

l/min

Pressure rating 16 bar

Non-obstructive; low  $\Delta P$ 

No moving parts; long

life cycle

Pulse output



#### MAG-VIEW MVM-002-QA

Flow range 0,1 ... 2 l/min

Pressure rating 10 bar

Non-obstructive; low  $\Delta P$ 

No moving parts; long

life cycle

Cost-optimized (plastic)

model



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