

# DATASHEET MVM-020-QA

## MAG-VIEW MVM-020-QA

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 20 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-020-QA is a cost-efficient instrument with a DN8 PVDF measuring tube for flow rates of 1...20 l/min, suited for operating pressures up to 10 bar(g). The analog and pulse output signals of the instrument are proportional to the flow.

### Technical specifications

#### Measurement / control system

Flow rates	1 ... 20 l/min (max. flow 25 l/min)
Volume flow accuracy	± 1 % RD (incl. factory calibration certificate; test conditions: water 23°C)
Repeatability	1 % FS
Turndown ratio	1:20 (5...100%)
Signal output starting from	~ 0,25 l/min
Media	Water and other conductive liquids (minimum conductivity of 20 µS/cm)
Response time (sensor)	< 100 msec
Operating temperature	Medium -10...60°C, Ambient 5...60°C, not freezing
Mounting	Any position, attitude insensitive
Flow indication	blinking green LED

#### Mechanical parts

Material (wetted parts)	Electrodes and grounding rings: Stainless Steel 316L Measuring pipe: PVDF Process connections: PVDF
Housing	ABS
Diameter	DN8

## Mechanical parts

Process connections	½" BSP male thread
Seals	EPDM
Ingress protection	IP65
Nominal pressure	max. 10 bar at 20°C, 8 bar at 40°C, 6 bar at 60°C

## Electrical properties

Power supply	12 ... 24 Vdc ±10 %
Max. power consumption	3,6 W
Analog output	4 ... 20 mA
Frequency output	Pulse rate / K-factor : 1000 pulses/l Resolution : 1,0 ml/pulse Signal shape : Push-Pull Signal current : max. 25 mA
Electrical protection measures	Short-circuit proof, protected against polarity reversal
Electrical connection	4-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-005-QA**

Flow range 0,25 ... 5  
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-PN**

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



**MAG-VIEW MVM-030-PA**

Flow range 0,1 ... 30  
l/min  
Pressure rating 16 bar  
Non-obstructive; low  $\Delta P$   
No moving parts; long  
life cycle  
Analog/Pulse 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