

DATASHEET MVM-200-QA

MAG-VIEW MVM-200-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 $\mu\text{S}/\text{cm}$. 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-200-QA is a cost-efficient instrument with a DN15 PVDF measuring tube for flow rates of 5...200 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	5 ... 200 l/min (max. flow 240 l/min)
Volume flow accuracy	$\pm 1\%$ RD (incl. factory calibration certificate; test conditions: water 23°C)
Repeatability	1 % FS
Turndown ratio	1:20 (5...100%)
Signal output starting from	~ 4 l/min
Media	Water and other conductive liquids (minimum conductivity of 20 $\mu\text{S}/\text{cm}$)
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	DN20

Mechanical parts

Process connections	1" 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 \pm 10 %
Max. power consumption	3,6 W
Analog output	4 ... 20 mA
Frequency output	Pulse rate / K-factor : 200 pulses/l Resolution : 5,0 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-050-QA

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



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-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



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