

RPmagG2 Electromagnetic flow meter

- Electromagnetic flow meter comprising a sensor and a transmitter
- Used to measure the volumetric flow rate of conductive fluids and wastewater
- Various types of output signals available
- Mainly used in the following sectors: chemical industry, energy sector (generation and distribution), mining, water treatment, paper industry, pharmaceutical industry, food sector and environmental protection
- The measurement is independent of the density, viscosity, temperature, pressure and conductivity ($>5\mu\text{S/cm}$) of the fluid being measured
- Available upon request **MID** approved version
- Battery-powered version (not MID-approved) available on request

The main feature of this flow meter is that it contains no moving parts, as it is a full-bore design. The advantages are therefore considerable:

- no pressure drop or mechanical wear
- capable of measuring fluids with high solid content
- fluid measurement is independent of viscosity, density, pressure and temperature



Technical specifications

Tabella Range Portate DN10 ÷ 250	
DN (mm)	Range minimo (0,5 m/s) / massimo (10 m/s)
10	0,0625 ÷ 2,5 m3/h
15	0,1575 ÷ 6,3 m3/h
20	0,25 ÷ 10 m3/h
25	0,4 ÷ 16 m3/h
32	0,625 ÷ 25 m3/h
40	1 ÷ 40 m3/h
50	1 ÷ 40 m3/h
65	1,575 ÷ 63 m3/h
80	4 ÷ 160 m3/h
100	6,25 ÷ 250 m3/h
125	6,25 ÷ 250 m3/h
150	10 ÷ 400 m3/h
200	15,75 ÷ 630 m3/h
250	15,75 ÷ 630 m3/h

Flow rate range	Processing of signals from fluids with flow rates of up to 787.5 m ³ /h in both directions (bidirectional flow meter).
Size range	PTFE DN10 ÷ DN250 / GOMMA DN65 ÷ DN250
Measuring range	<0,6 m3/h ÷ >70000 m3/h
Fluid conductivity	> 5 microsiemens/cm. (>20 microsiemens for demineralised water)
Sensor material	SS 321
Coating material	PTFE; rubber
Material of the electronic case	alluminio verniciato epoxy
Electrode material	AISI316L - Hastelloy C - Titanium - Tantalum - Platinum
Operating temperature (remote version)	rubber-10 ÷ +80°C; PTFE -40 ÷ +150°C
Operating temperature (compact version)	rubber-10 ÷ +80°C; PTFE -40 ÷ +100°C
Maximum accuracy	Class II
Maximum repeatability	±0,1%
Output signals	4÷20mA: 0÷500Ω / Frequency: 0.1÷10000Hz Pulsed output: 24V galvanically isolated or open collector galvanically isolated 24V, 20mA (opz.)
Communication protocol	Modbus RTU
Alarm output	2 relè, 3A 230Vac N.O
Power supply	85÷265Vac, 24Vac/dc, 12Vdc
Consumption	Typical 6W, max. 8W.
Compact version protection	IP67
Remote version protection	Sensor IP67 / IP68 (on request); converter IP67

The Company reserves the right to make changes to the technical specifications and product illustrations