

RPmagG2

Electromagnetic flowmeter

- Compact digital system, for conductive liquids ($>5\mu\text{S/cm}$), even with a content of suspended solids
- Measurement range: from $<0,6\text{m}^3/\text{h}$ to $>70000\text{m}^3/\text{h}$
- Best measurement accuracy: $\pm 0.2\%$
- Power supply: $85 \div 265 \text{ Vac}$ or 24 Vdc

- Electromagnetic flowmeter consisting of a sensor and a transmitter
- The flowmeter is used to measure volumetric flowrate for conductive liquids and pulps
- Several output signals are available
- The main applications can be found in the following fields: chemical industry, power generation and distribution, mine, water treatment, paper industry, pharmaceutical industry, food and environmental protection
- The measurement is independent ($>5\mu\text{S/cm}$) of the density, viscosity, temperature, pressure and conductivity of the measured fluid
- Available, upon request, **MID** approved version
- Available, upon request, **Lithium battery powered version**



Hydraulic performances

The electromagnetic flowmeter is not suitable for fluid with big suspended parts

No moving parts in the measuring tube. No pressure loss. Low requirement for the upstream and downstream straight pipes.

Pipe dimension range	DN15 ÷ DN1600
Measure range	$<0,6 \text{ m}^3/\text{h} \div >70000 \text{ m}^3/\text{h}$
Fluid conductivity	$>5\mu\text{S/cm}$
Sensor material	SS 321
Lining materials	rubber; PTFE;
Housing material	aluminium
Electrodes materials	SS 316Ti, Hastelloy B, Hastelloy C, Titanium, Tantalum
Remote version operating temperature	rubber $<80^\circ\text{C}$ – FEP $<100^\circ\text{C}$ – PTFE $<150^\circ\text{C}$ (180°C peak value)
Compact version operating temperature	$<70^\circ\text{C}$
Max. accuracy	$\pm 0,2\%$
Max. repeatability	$\pm 0,07\%$
Fluid velocity	0m/s ÷ 10m/s
Open-collector output	30V; 250mA
Analog output	4 ÷ 20mA; max. load 750Ω
Protocol communication	RS485 (optional); Modbus (optional); HART (optional)
Pulse output	1 ÷ 5000Hz
Power supply	85 ÷ 265 Vac o 24 Vdc
Consumption	$<20\text{W}$
Protection compact version	IP67 with 2 cable gland M20 x 1,5 for electrical connection
Protection remote version	IP67 / IP68 only pipe (optional); with 4 cable gland M16 x 1,5 for connecting the electronic unit to the measurement pipe; with 2 cable gland M20 x 1,5 for electrical connection

Continuous development of our products may necessitate changes in details without prior notice 09/19.