



RSMAG

Electromagnetic flowmeter

Flow measurement for conductive liquids

Dn from 10 to 200 mm

Connections DIN 11851 and CLAMP DIN 32676

Measurement accuracy: $\pm 0.2\%$; $\pm 0.5\%$

PFA coatings

Power supply 85÷265Vac; 12Vdc; 20÷30Vdc/Vac

Datalogger on USB pendrive

Removable O-LED display module

Remote control via Smartphone

RSmag flowmeters are suitable for applications in food and pharmaceutical industries. DIN or Clamp ISO 2852 process connection are suitable for applications with milk, beer or other drinks. Manufactured completely in stainless steel with the option for PFA lining makes RSmag suitable for pharmaceutical application.

Technical Feature

Flow rate range

Bidirectional on fluids with speeds up to 10m / s

Range dimension / lining material

PFA DN10 ÷ DN200

Sensor pipe material

SS304

Housing material

epoxy painted aluminum

Electrodes material

SS316L - Hastelloy C - Titanium - Tantalum

Measure range

$<0,3\text{m}^3/\text{h} \div >1100\text{m}^3/\text{h}$

Accuracy

$\pm 0,5\%$ standard; $\pm 0,2\%$ opt

Repeatability

$\pm 0,1\%$

Fluid conductivity

$>5\mu\text{S}/\text{cm}$

Power supply

85÷265Vac; 12Vdc; 20÷30Vdc/Vac

Consumption

6W, max. 8W.

Temperature range

Remote version operating temperature: $-40\div 150^\circ\text{C}$

Compact version operating temperature: $-40\div 100^\circ\text{C}$

Storage temperature: $-40\div 85^\circ\text{C}$

Communication

modbus

Data Logger

Internal data logger to USB pen drive

Output

4 ÷ 20mA; Frequency; Impulsive; 2 relays

Input signals

2 active analog inputs

1 digital input.

Reverse Flow

Allows measure and totalization of reverse flow

Low Flow Cutoff

Adjustable. Below selected value, instantaneous flow and outputs are driven to the zero flow rate signal level

Humidity Limits

0-100% RH to 150 °F (65 °C), not condensing.

Damping

Adjustable between 1 and 99 seconds

Compact version IP rating

IP67

Remote version IP rating

sensor IP67 / IP68 (by request) - converter IP67

Anti-condensation filter

Anti-condensation filter installed on converter

**Rsmag****Electromagnetic Flowmeter**

For conductive fluids even with a content of suspended matters.
With sensor body in SS304
For chemical/pharmaceutical and food applications
Ambient temperature range: -20°C + 60°C
Fluid temperature range: -40° ÷ 180°C (max 100° for compact versions)
IP67 electronic housing with osmotic filter
2 alarm relays (min/max) - 3rd electrode for grounding

Version	
B	Remote - acc. 0,2% - Data logger - n.2 4÷20mA input - standard cable length 5m (over 5m eur 7,80/m)
C	Remote - acc. 0,5% - Data logger - n.2 4÷20mA input - standard cable length 5m (over 5m eur 7,80/m)
L	Compact - acc. 0,2% - Data logger - n.2 4÷20mA input
N	Compact - acc. 0,5% - Data logger - n.2 4÷20mA input
R	Remote - acc. 0,2% - n.2 4÷20mA input - standard cable length 5m (over 5m eur 7,80/m)
S	Remote - acc. 0,5% - n.2 4÷20mA input - standard cable length 5m (over 5m eur 7,80/m)
T	Compact - acc. 0,2% - n.2 4÷20mA input
V	Compact - acc. 0,5% - n.2 4÷20mA input
Z	Special
DN flange / Max. pressure / Lining	
0010E2	DN10 / 1.6MPa / PFA - range 0,14 ÷ 2,9m3/h
0015E2	DN15 / 1.6MPa / PFA - range 0,3 ÷ 6m3/h
0020E2	DN20 / 1.6MPa / PFA - range 0,5 ÷ 12m3/h
0025E2	DN25 / 1.6MPa / PFA - range 0,6 ÷ 18m3/h
0032E2	DN32 / 1.6MPa / PFA - range 1 ÷ 30m3/h
0040E2	DN40 / 1.6MPa / PFA - range 1,8 ÷ 42m3/h
0050E2	DN50 / 1.6MPa / PFA - range 3 ÷ 66m3/h
0065E2	DN65 / 1.6MPa / PFA - range 5,8 ÷ 120m3/h
0080E2	DN80 / 1.6MPa / PFA - range 8,9 ÷ 180m3/h
0100E2	DN100 / 1.6MPa / PFA - range 11 ÷ 282m3/h
0125E2	DN125 / 1.6MPa / PFA - range 20 ÷ 450m3/h
0150E2	DN150 / 1.6MPa / PFA - range 30 ÷ 600m3/h
0200E2	DN200 / 1.6MPa / PFA - range 50 ÷ 1100m3/h - only with connection E (CLAMP)
Process connection	
D	DIN 11851 - 2.5 Mpa
E	SS304 CLAMP DIN 32676 - 1.6 Mpa
Z	Special
Electrodes material	
1	SS316L stainless steel
3	Hastelloy C276
4	Titanium
5	Tantalum
9	Special
Power supply	
A	85÷265Vac
C	20÷30 Vac/Vdc
D	12Vdc
Z	Special
Accessories	
0	None
Output	
B	4÷20mA with galvanic separation + pulse + MODBUS RTU + BLUETOOTH
E	4÷20mA + pulse + MODBUS RTU - with galvanic separation
Pipe protection degree	
1	IP67
2	IP68 (only for remote version)