RBKMAG

Electromagnetic flowmeter

Specific for installations with “0 diameters” near curves, fittings etc ...

Dn 15 ÷ 800 mm

Accuracy: ± 0.2% ± 0.5%

Battery powered, 6 years battery life; 12÷24Vdc

Battery-powered RBKmag flowmeters do not require external power supply, therefore they are a valid alternative to conventional mechanical measuring systems and in isolated applications without power supply.
RBKmag thanks to the particular internal geometry is less influenced by the proximity of disturbing elements such as fittings, curves etc. and can therefore be installed at “ZERO DIAMETERS”. The RBKmag meter is suitable for use with a wide range of conductive liquids, also chemically aggressive, thanks to the possibility of selecting the most suitable electrode material for the application..

Technical Feature

Flow rate range
RBKMAG is able to process signals from fluids with flow rates of up to 10m / s in both directions (bidirectional meter).
Range dimension / lining material
pfa DN15 ÷ DN40
neoprene DN50 ÷ DN800
Sensor material
SS321
Electronic housing material
SS316 | ABS
Electrodes material
SS316L - Hastelloy C
Measure range
<0.9m^3/h ÷ >9048m^3/h
Accuracy
±0,5% standard;
Repeatability
±0,1%
Fluid conductivity
>5µS/cm.

Power supply
Battery, 6 years life; 12÷24Vdc
Operating temperature Limits
Remote version
-10 ÷ +80°C
Compact version
-10 ÷ +80°C
Storage temperature: -40÷85°C
Communication protocol
Modbus RTU (opt.)
Output
Frequency: 0,1÷5000 Hz
Pulse: open collector
Reverse Flow
Allows measure and totalization of reverse flow
Output test
Frequency output: the transmitter can force the output signal from 0.1 to 5000 Hz to a test value.

Startup time
0.5s from zero flow.
Cutoff
Adjustable 0.0 ÷ 9.9% of the Qmax. Below the set value the display of the instantaneous flow and the outputs are forced to zero.
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

Rbkmag Battery electromagnetic flowmeter

Zero diameter mounting.
For conductive fluids. With sensor pipe in SS321
External sensor and flanges in carbon steel
Medium ambient temperature range: -20° ÷ 50°C
Fluid temperature range: -10° ÷ 80°C
Calibration via remote control
3rd electrode for grounding

	Version	
	A	Remote - accuracy 0,5% - standard cables 5m (over 5m eur 7,80/m - max 50m)
	D	Remote - accuracy 0,5% - with integrated GPRS antenna - standard cables 5m (over 5m eur 7,80/m - max 50m)
	G	Remote - accuracy 0,5% - with separate GPRS antenna - standard cables 5m (over 5m eur 7,80/m - max 50m)
	H	Compact - accuracy 0,5%
	P	Compact - accuracy 0,5% - with integrated GPRS antenna
	R	Compact - accuracy 0,5% - with separate GPRS antenna
	Z	Special
	DN flange / Max. pressure / Lining	
	0015B3	DN15 / 4.0MPa / PFA - range 0,1 ÷ 3,2m3/h
	0020B3	DN20 / 4.0MPa / PFA - range 0,2 ÷ 5,6m3/h
	0025B3	DN25 / 4.0MPa / PFA - range 0,3 ÷ 8,8m3/h
	0032B3	DN32 / 4.0MPa / PFA - range 0,6 ÷ 15m3/h
	0040B3	DN40 / 4.0MPa / PFA - range 0,9 ÷ 23m3/h
	0050E1	DN50 / 1.6MPa / Neoprene - range 1,5÷ 35m3/h
	0065E1	DN65 / 1.6MPa / Neoprene - range 2,4 ÷ 59m3/h
	0080E1	DN80 / 1.6MPa / Neoprene - range 3,7 ÷ 92m3/h
	0100E1	DN100 / 1.6MPa /Neoprene - range 6 ÷ 141m3/h
	0125E1	DN125 / 1.6MPa / Neoprene - range 9 ÷ 220m3/h
	0150E1	DN150 / 1.6MPa / Neoprene - range 13 ÷ 318m3/h
	0200E1	DN200 / 1.6MPa / Neoprene - range 23 ÷ 565m3/h
	0250E1	DN250 / 1.6MPa / Neoprene - range 35 ÷ 833m3/h
	0300C1	DN300 / 1.0MPa / Neoprene - range 51 ÷ 1272m3/h
	0300E1	DN300 / 1.6MPa / Neoprene - range 51 ÷ 1272m3/h
	0350C1	DN350 / 1.0MPa / Neoprene - range 70 ÷ 1731m3/h
	0350E1	DN350 / 1.6MPa / Neoprene - range 70 ÷ 1731m3/h
	0400C1	DN400 / 1.0MPa / Neoprene - range 90 ÷ 2262m3/h
	0400E1	DN400 / 1.6MPa / Neoprene - range 90 ÷ 2262m3/h
	0450C1	DN450 / 1.0MPa / Neoprene - range 114 ÷ 2863m3/h
	0450E1	DN450 / 1.6MPa / Neoprene - range 114 ÷ 2863m3/h
	0500C1	DN500 / 1.0MPa / Neoprene - range 141 ÷ 3534m3/h
	0500E1	DN500 / 1.6MPa / Neoprene - range 141 ÷ 3534m3/h
	0600C1	DN600 / 1.0MPa / Neoprene - range 203 ÷ 5089m3/h
	0600E1	DN600 / 1.6MPa / Neoprene - range 203 ÷ 5089m3/h
	0700C1	DN700 / 1.0MPa / Neoprene - range 277 ÷ 6927m3/h
	0700E1	DN700 / 1.6MPa / Neoprene - range 277 ÷ 6927m3/h
	0800C1	DN800 / 1.0MPa / Neoprene - range 362 ÷ 9048m3/h
	0800E1	DN800 / 1.6MPa / Neoprene - range 362 ÷ 9048m3/h
	Process connection	
	B	DIN flanges - UNI 1092-1
	D	ANSI flanges (price on request)
	Z	Special
	Electrodes material	
	1	SS316L
	3	Hastelloy C276
	Power supply	
	D	Battery - 6 years life
	E	Battery (6 years life) + 12÷24Vdc external supply
	Accessories	
	0	None
	1	316SS or Hastelloy C grounding rings for plastic pipe installation (prices on MA page)
	5	Data logger on SD card
	Output	
	A	Pulse
	E	Pulse + MODBUS (not with GPRS)
	F	Pulse output + 4÷20mA (not with GPRS)
	G	Pulse output + 4÷20mA + MODBUS (not with GPRS)