

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

Dn 50 - 150 mm Acuracy: ± 0.5%

ABS sensor and lining

Power supply 85-265vAC or 12, 24vAC/vDC

Remote control via Smartphone



SGM LEKTRA presents a new type of electromagnetic flowmeter with plastic sensors: RKmag. Because of its particular inner shape the mounting of the unit requires no straight pipe lengths before and after the meter. The converter is equipped with a large, bright, removable O-LED display and can mount a pen-drive USB data logger. The configurable outputs can be analogic, pulse and MODBUS RTU and alarm messages are managed by 2 configurable relays.RKmag is suitable for the use with a wide range of conductive liquids, even chemically aggressive: the electrodes material can be selected according to the chemical properties of the fluid.

TECHNICAL FEATURES

Flow rate range

RKMAG is able to process signals from fluids with flow rates of up to 10m / s in both directions (bidirectional meter).

Range dimension / lining material

ABS DN50 - DN150

Sensor material

ABS

Housing material

epoxy painted aluminium

Electrodes material

SS316L - Hastelloy C - Titanium - Tantalum - Platinum

Measure range

 $<3m^3/h \div >600m^3/h$

Accuracy

±0.5% standard; ±0.2% optional

Repeatability

±0.1%

Fluid conductivity

>5µS/cm.

Power supply

85-265vAC, 24vAC/DC, 12vDC.

Consumption

6W, max. 8W.

Ambient Temperature Limits

Remote version operating temperature: ABS -20 to +120°C Compact version operating temperature: ABS -20 to +75°C

Storage temperature: -40 to +85°C

Communication protocol

Modbus RTU or Bluetooth App Android (opt.) or Hart (opt.)

Data Logger

Internal data logger to USB pen drive for flow measurements and analog inputs storing;

the measurement storage interval can be set from 15 to 3600 seconds

Output

4-20mA: 0-500Ω Frequency output: 0.1-10000 Hz Pulse output: 24vDC galvanically isolated or open collector

galvanically isolated 24v 20mA (opt)
Alarm output: 2 relays, 3A 230vACN.O.

Input signals

RKMAG has 2 active analog inputs at 24vDC for 2-wire transmitters connection (eg. Temperature or

pressure) and 1 digital input for an external contact connection for the integrated batch function restart and for

partial totalizer management.

Reverse Flow

Allows measure and totalization of reverse flow.

Output Testing

Relays output: Transmitter can switch relays at testing value.

Current Source: Transmitter can be commanded to supply a speci-

fied test current between 4.0 and 20.0 mA.

Frequency Source: Transmitter can be commanded to supply a specified test frequency between 1 to 10000 Hz.

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

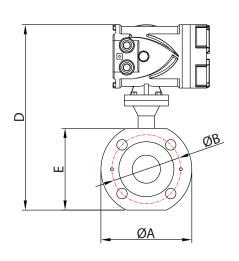
Remote version IP rating

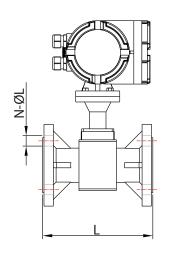
sensor IP67 / IP68 (by request) - converter IP67

Anti-condensation filter

Anti-condensation filter installed on converter







DN (mm)	L (mm)	ØA (mm)	ØB (mm)	E (mm)	D (mm)	N-ØL (mm)
50	200	165	125	150	340	4-Ø18
80	200	200	160	185	370	8-Ø18
100	250	220	180	205	385	8-Ø18
150	300	285	240	285	500	8-Ø22

Rkmag Electromagnetic flowmeter

Zero diameter mounting.
For conductive fluids. With sensor body in ABS
Medium ambient temperature range: -20° to 75°C
IP67 electronic housing with anti condensation filter
2 alarm relays (min/max)

Version	
В	Remote - acc. 0.2% - std cable length 5m - Data logger - n.2 4-20mA input (over 5m, price each additional meter)
С	Remote - acc. 0.5% - std cable length 5m - Data logger - n.2 4-20mA input (over 5m, price each additional meter)
L	Compact - acc. 0.2% - max temperature of the fluid 100°C - Data logger - n.2 4-20mA input
N	Compact - acc. 0.5% - max temperature of the fluid 100°C - Data logger - n.2 4-20mA input

DN flange / Max. pressure / Lining (temperature range of the fluid)		
0050E4	DN50 / 1.6MPa / ABS (-20° ÷ +120°C); range 3 - 66m3/h; standard UNI 1092-1	
0080E4	DN80 / 1.6MPa / ABS (-20° ÷ +120°C); range 8.9 - 180m3/h; standard UNI 1092-1	
0100E4	DN100 / 1.6MPa / ABS (-20° ÷ +120°C); range 11 - 282m3/h; standard UNI 1092-1	
0150E4	DN150 / 1.6MPa / ABS (-20° ÷ +120°C); range 30 - 600m3/h; standard UNI 1092-1	

Process connection

B DIN (UNI 1092-1) flange

Electrodes material	
1	SS316L Stainless steel
3	Hastelloy C
4	Titanium
5	Tantalum
6	Platinum

Power supply		
Α	85-265vAC	
В	24vDC/ 24vAC	
D	12vDC	

Accessories

0 None

Output	
В	4-20mA with galvanic separation + pulse + MODBUS RTU + BLUETOOTH
С	>PENDING< 4-20mA with galvanic separation + pulse + HART
Е	4-20mA with galvanic separation + pulse + MODBUS RTU

Pipe protection degree	
1	IP67
2	IP68 - only for remote version

