



## RPMAGM MID certified electromagnetic flowmeter

MID certified flow meter

Dn 10 ÷ 250

Accuracy: class II

RUBBER / PTFE lining

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

Configuration and displaying via VL701 with O-LED display

The RpmagM product line is suitable for multiple applications in the “industrial process” field. The MID certification according to the 2014/32 / EU directive, and compliant with the OIML49 R - EN14154 - ISO4064 regulations, makes RpmagM suitable for all fiscal uses. In addition to various coating materials, electrodes in hastelloy c, tantalum and titanium are also available. The converter is available with the most popular communication interfaces such as Modbus.

### Technical Feature

#### Flow rate range

Bidirectional on fluids with speeds up to 787,5m<sup>3</sup>/h

#### Range dimension / lining material

PTFE DN10 ÷ DN250  
RUBBER DN65 ÷ DN250

#### Sensor material

SS321

#### Housing material

epoxy painted aluminium

#### Electrodes material

SS316L - Hastelloy C - Titanium - Tantalum - Platinum

#### Measure range

R=Q3/Q1 ≤40; Q2/Q1=1,6

#### Accuracy

Class II

#### Repeatability

±0,1%

#### Fluid conductivity

>5µS/cm.

#### Power supply

85÷265Vac; 12Vdc; 20÷30Vdc/Vac

#### Consumption

6W, max. 8W.

#### Temperature class

T50

#### Ambient Temperature Limits

Remote version operating temperature: RUBBER -10 ÷ +80°C; PTFE -40 ÷ +150°C

Compact version operating temperature: RUBBER -10 ÷ +80°C; PTFE -40 ÷ +100°C

Storage temperature: -40÷85°C

#### Communication protocol

Modbus

#### 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 230Vac N.O.

#### Reverse Flow

Allows measure and totalization of reverse flow.

#### Humidity Limits

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

#### Damping

Adjustable between 1 and 99 seconds.

#### Compact version IP rating

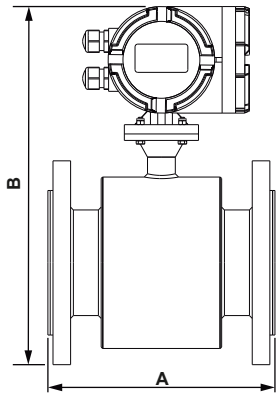
IP67

#### Remote version IP rating

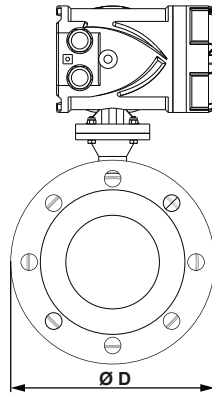
sensor IP67 / IP68 (by request) - converter IP67

#### Anti-condensation filter

Anti-condensation filter installed on converter



RPmagM



Electromagnetic flowmeter MID

DN (mm)	A (mm)	PN 16 - PN 40	
		B (mm)	ØD (mm)
10	200	295	90
15		295	95
20		300	105
25		300	115
32		315	140
40		335	150
50		344	165
65		360	185
80		375	200

DN (mm)	A (mm)	PN 10		PN 16		PN 40	
		B (mm)	ØD (mm)	B (mm)	ØD (mm)	B (mm)	ØD (mm)
100	250	-	-	400	220	410	235
125	250	-	-	420	250	435	270
150	300	-	-	460	285	468	300
200	350	520	340	520	340	538	375
250	450	570	395	575	405	598	450

In compliance with directive 2014/32/EU  
 (standard OIML R 49-1/2/3 - EN 14154-1/2/3 - ISO 4064-1/2/5)  
 For conductive waters. Sensor pipe in SS321  
 External sensor and flanges in carbon steel  
 Medium ambient temperature range: +5° + 40°C  
 Fluid temperature range: -10° + 80°C (with Neoprene lining)  
 -40° + 150°C (with PTFE lining)  
 IP67 electronic housing with anticondensation filter  
 2 alarm relays (min/max)

Version	
<b>C</b>	Remote - acc. Class 2 - Temp. Class T50 - cable length 3m - n.2 4+20mA input
<b>N</b>	Compact - acc. Class 2 - Temp. Class T50 - n.2 4+20mA input
DN flange / Max. pressure / Lining	
<b>0010E2</b>	DN10 / 1.6MPa / PTFE - range 0,0625 + 2,5 m3/h
<b>0015E2</b>	DN15 / 1.6MPa / PTFE - range 0,1575 + 6,3 m3/h
<b>0020E2</b>	DN20 / 1.6MPa / PTFE - range 0,25 + 10 m3/h
<b>0025E2</b>	DN25 / 1.6MPa / PTFE - range 0,4 + 16 m3/h
<b>0032E2</b>	DN32 / 1.6MPa / PTFE - range 0,625 + 25 m3/h
<b>0040E2</b>	DN40 / 1.6MPa / PTFE - range 1 + 40 m3/h
<b>0050E2</b>	DN50 / 1.6MPa / PTFE - range 1 + 40 m3/h
<b>0065E1</b>	DN65 / 1.6MPa / Neoprene - range 2,5 + 63 m3/h
<b>0065E2</b>	DN65 / 1.6MPa / PTFE - range 2,5 + 63 m3/h
<b>0080E1</b>	DN80 / 1.6MPa / Neoprene - range 4 + 160 m3/h
<b>0080E2</b>	DN80 / 1.6MPa / PTFE - range 4 + 160 m3/h
<b>0100E1</b>	DN100 / 1.6MPa / Neoprene - range 6,25 + 250 m3/h
<b>0100E2</b>	DN100 / 1.6MPa / PTFE - range 6,25 + 250 m3/h
<b>0125E1</b>	DN125 / 1.6MPa / Neoprene - range 6,25 + 250 m3/h
<b>0125E2</b>	DN125 / 1.6MPa / PTFE - range 6,25 + 250 m3/h
<b>0150E1</b>	DN150 / 1.6MPa / Neoprene - range 10 + 400 m3/h
<b>0150E2</b>	DN150 / 1.6MPa / PTFE - range 10 + 400 m3/h
<b>0200E1</b>	DN200 / 1.6MPa / Neoprene - range 15,75 + 630 m3/h
<b>0200E2</b>	DN200 / 1.6MPa / PTFE - range 15,75 + 630 m3/h
<b>0250E1</b>	DN250 / 1.6MPa / Neoprene - range 15,75 + 630 m3/h
<b>0250E2</b>	DN250 / 1.6MPa / PTFE - range 15,75 + 630 m3/h
Process connection	
<b>B</b>	DIN flange (UNI 1092-1)
<b>D</b>	ANSI flange (price on request)
<b>Z</b>	Special
Electrodes material	
<b>1</b>	SS316L stainless steel
<b>3</b>	Hastelloy C
<b>4</b>	Titanium
<b>5</b>	Tantalum
<b>6</b>	Platinum
Power supply	
<b>A</b>	85+265Vac
<b>B</b>	24Vdc / 24Vac
<b>D</b>	12Vdc
<b>Z</b>	Special
Accessories	
<b>0</b>	None
<b>1</b>	316SS or Hastelloy C grounding rings for plastic pipe installation (price on request)
<b>2</b>	Protective rings against inner lining abrasion (price on request)
<b>3</b>	3rd electrode - price on request
Output	
<b>E</b>	4+20mA + pulse + MODBUS RTU with galvanic separation
Pipe protection degree	
<b>1</b>	IP67
<b>2</b>	IP68 - only for remote version