



## RLMAG Electromagnetic flowmeter

- Flow rate and temperature measurement
- Accuracy  $<(\pm 0.8\%$  of the measured value + 0.5% of full scale)
- Measuring body totally in AISI 316L
- Internal coating in PEEK
- Fully configurable measurement, monitoring and dosing functions
- Bidirectional measurement
- Max pressure 16bar; max. temperature 70 ° C
- Threaded process connections
- Color display with 90 ° rotation display

Measuring device suitable for measuring values from a minimum of 0.04l / m (DN5) up to a maximum of 100l / m (DN15). The body totally in AISI 316L makes or instrument suitable also for chemical / food applications. The reduced dimensions and the variety of threaded connections allow an easy and quick mechanical installation. Rotating the display of the TFT display allows horizontal or vertical mounting orientation..

### Technical Feature

#### Range of flow

Processing of signals coming from fluids with speeds up to 10m / s in both directions (bidirectional meter)

#### Process Connection / Internal Dimension

- G ½ “/ 5mm
- G ¾ “/ 10mm
- G 1 “/ 15mm

#### Internal lining material

PEEK

#### Sensor body material

AISI 316L

#### Electrode material

AISI 316L

#### Measuring range

0.04l / m to 100l / m

#### Accuracy

$<(\pm 0.8\%$  of the measured value + 0.5% of the full scale)

#### Electrical connection

4-pin M12x1 connector

#### Repeatability

$\pm 0.2\%$  of full scale

#### Supply voltage

19 ÷ 30Vdc

#### Consumption

Max. 200mA

#### Temperature range

Process temperature: -20 ÷ + 70 ° C

Ambient temperature: -20 ÷ + 60 °

#### Output signals

max N.2 outgoing connections configurable separately as:

Analogue output 4 ÷ 20mA, or 0 ÷ 20mA with max 500Ω / 0 ÷ 10V

Configurable pulse output

Output frequency max 1000Hz (2000Hz alarm overflow)

PNP alarm output, or configurable

NPN; max 30Vdc 200mA

Control input max 30Vdc

Dosing control output for START-STOP-RESEmeasurable

#### Reverse flow

Instant measurement and total reverse flow

#### Flow measurement simulation

Various flow measurement simulation modes are available

#### Range cutoff

Adjustable. Below the set value the display of the instantaneous flow and the outputs are forced to zero.

#### Relative humidity

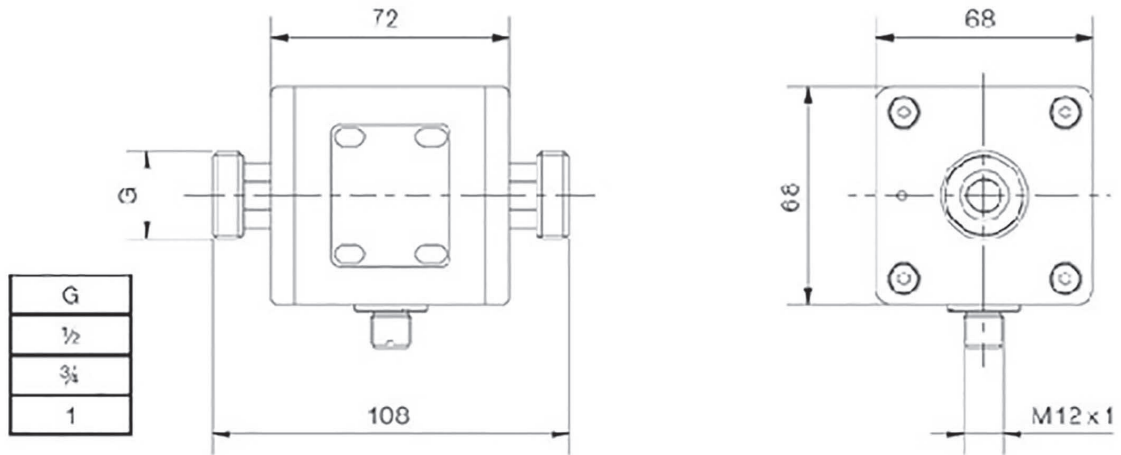
40 ÷ 100% RH at 65 ° C, without condensation

#### Response time for alarm outputs (integration)

Adjustable between 0 and 6 seconds

#### Protection

IP67



**RImag**

Electromagnetic flowmeter

For conductive fluids ( $>20\mu\text{S}$ ) - Sensor body in SS316L  
 Ambient temperature  $-20^{\circ} \div +60^{\circ}\text{C}$   
 Protection IP67 - 2 configurable outputs  
 TFT color display 1.4" with  $\pm 90^{\circ}$  rotation  
 Dosing, measuring and monitoring functions  
 Supplied with 5m pre-wired cable + female connector

Version	
Y	Compact - accuracy $\pm 0,8\%$ - Max temperature of the fluid $+70^{\circ}\text{C}$
Thread / DN / Max. pressure / Lining	
0005E5	G 1/2" / DN05 / 1,6MPa / PEEK ( $-20^{\circ} \div +70^{\circ}\text{C}$ ) - Range 0,04 ÷ 10 l/m
0010E5	G 3/4" / DN10 / 1,6MPa / PEEK ( $-20^{\circ} \div +70^{\circ}\text{C}$ ) - Range 0,2 ÷ 50 l/m
0015E5	G 1" / DN15 / 1,6MPa / PEEK ( $-20^{\circ} \div +70^{\circ}\text{C}$ ) - Range 0,4 ÷ 100 l/m
9999Z9	Special
Process connection	
A	Standard gas threaded
Z	Special
Electrodes material	
1	SS316L
Power supply	
B	19÷30Vdc
Accessories	
0	None
9	Special
Output	
A	4÷20mA / Pulse / Frequency / Alarm configurable
Pipe protection degree	
1	IP67