

Magphant electromagnetic flowmeter

The cost-effective limit switch for reliable and repeatable flow monitoring



Benefits:

- High plant availability – reliable flow information
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Maintenance-free – no moving parts
- Process safety – device self-monitoring and reliable monitoring even with empty piping
- Product safety – integrated testing to check correct functioning of the electronics
- Easy operation – potentiometer setting of full-scale value

Specs at a glance

- **Max. measurement error** 2%
- **Measuring range** 0 to 56'550 m³/h
- **Medium temperature range** -20 to +120°C (-4 to +248°F)
- **Max. process pressure** 0 to 16 bar abs
- **Wetted materials** 1.4435/316L

Field of application: The cost-effective, compact limit switch Magphant is an ideal flowmeter for water applications in Utilities. Its reliable measurement with high repeatability allows for universal and easy use and supports safe process- and plant operation.

Features and specifications

Liquids

Measuring principle
Electromagnetic

Liquids

Product headline

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Sensor features

High plant availability – reliable flow information. Energy-saving flow measurement – no pressure loss due to cross section constriction.

Maintenance-free – no moving parts. Compact, space-saving design.

Nominal diameter: DN 15 to 2000 (½ to 80").

Transmitter features

Process safety – device self-monitoring and reliable monitoring even with empty piping. Product safety – integrated testing to check correct functioning of the electronics. Easy operation – potentiometer setting of full-scale value. Switch point setting via rotary switch. Current output and relay output.

Nominal diameter range

DN15 to DN2000

1/2" to 80"

Wetted materials

1.4435/316L

Measured variables

Volume flow

Max. measurement error

2%

Measuring range

0 to 56'550 m³/h

Max. process pressure

0 to 16 bar abs

Medium temperature range

-20 to +120°C

(-4 to +248°F)

Liquids

Ambient temperature range

-20...60 °C (-4 to 140°F)

Sensor housing material

Die-cast aluminium, epoxy powder coated

Degree of protection

IP 66 / NEMA 4X / Type 4X

Display/Operation

Test function

Outputs

4 to 20 mA

Relay

Inputs

None

Power supply

24 V DC (20...30 V DC)

Hazardous area approvals

FM

CSA

Product safety

CE, EAC



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