Picomag electromagnetic flowmeter

Smart magmeter for utilities – intuitive · convenient · multivariable



Benefits:

- Time-saving, easy configuration even in places difficult to reach – secure Bluetooth connection
- Fewer measuring points necessary – simultaneous flow, conductivity and temperature measurement
- Cost-efficient specialist for use in tight spaces e.g. skids – sensor and transmitter in one housing
- Quick offline configuration check – unique, comfortable knock functionality
- Simple device access through its whole lifecycle – no manual needed due to intuitive SmartBlue App
- Instant local process monitoring – large, user-friendly display of all measurement activities
- Flexible integration into all fieldbus systems – plug-and-play device with IO-Link

Specs at a glance

- **Max. measurement error** Volume flow: +/-0.8% o.r. +/- 0.1% o.f.s
- **Measuring range** up to 750 l/min
- **Medium temperature range** -10 to 70°C (+14 to +158 °F) Permissible short-term temperature, maximum one hour: 85 °C (185 °F) Repetition after 4 hours at the earliest
- **Max. process pressure** 16 bar
- **Wetted materials** PEEK, Stainless Steel, FKM, EPDM Electrodes: 1.4404/316L

Field of application: Picomag is the economical magmeter for many applications in secondary circuits with conductive liquids in all industries.

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End customers, skid builders, equipment manufacturers and system integrators value the space-saving Picomag for its flexible installation capabilities. Additionally, its future-oriented, intuitive operation via SmartBlue app on every Bluetooth-enabled smartphone or tablet ensures fast, secure and simple commissioning.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Product headline

Smart magmeter for utilities – intuitive · convenient · multivariable.
Time-saving, easy configuration even in places difficult to reach – secure Bluetooth connection.
Ideal for process quality control and monitoring due to temperature and conductivity measurement in utilities.

Sensor features

Fewer measuring points necessary – simultaneous flow, conductivity and temperature measurement. Cost-efficient specialist for use in tight spaces e.g. skids – sensor and transmitter in one housing.
High shock and vibration resistance. Degree of protection: IP65/67.
Empty pipe detection.

Transmitter features

Quick offline configuration check – unique, comfortable knock functionality. Simple device access through its whole lifecycle – no manual needed due to intuitive SmartBlue app. Effortless configuration of several devices – settings can be saved and loaded into other meters.
Flexible integration into all fieldbus systems – plug-and-play device with IO-Link.
Wireless remote access via Bluetooth SmartBlue app. IO-Link and various I/Os for all line-sizes. 1.4" TFT color display with backlight.

Nominal diameter range

DN15 to 50 (1/2 to 2")

Liquids

Wetted materials
PEEK, Stainless Steel, FKM, EPDM
Electrodes: 1.4404/316L

Measured variables
Volume flow, Temperature, Conductivity

Max. measurement error
Volume flow: +/-0.8% o.r. +/- 0.1% o.f.s

Measuring range
up to 750 l/min

Max. process pressure
16 bar

Medium temperature range
-10 to 70°C (+14 to +158 °F)
Permissible short-term temperature, maximum one hour:
85 °C (185 °F)
Repetition after 4 hours at the earliest

Ambient temperature range
-10 to 60 °C

Sensor housing material
1.4404/316L, Polycarbonate

Transmitter housing material
1.4404/316L, Polycarbonate

Degree of protection
IP 65/67

Display/Operation
Integrated display, operation via SmartBlue app

Liquids

Outputs

Current (4 to 20mA)
Pulse
Switch
Voltage (2 to 10V)

Inputs

Status

Digital communication

IO-Link

Power supply

18 to 30V DC

Product safety

cULus listing

Hygienic approvals and certificates

Drinking water approvals: NSF

Endress+Hauser B.V.
Netherlands

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