Proline Promag W 10 electromagnetic flowmeter

Flowmeter for basic water and wastewater applications with easy-to-use operation concept

More information and current pricing:
www.endress.com/5WBB

Benefits:

- Reliable measurement at constant accuracy with 0 x DN inlet run without pressure loss
- Flexible engineering – sensor with fixed or lap-joint process connections
- Application fitness – EN ISO 12944 corrosion protection for underground or underwater installation
- Improved plant availability – sensor compliant with industry-specific requirements
- Optimum usability – operation with mobile devices and SmartBlue app or display with touch screen
- Simple, time-saving commissioning – guided parameterization in advance and in the field
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Volume flow (standard): ±0.5 % o.r. ± 1 mm/s (0.04 in/s)
- **Measuring range** 0.5 m3/h to 263000 m3/h (2.5gal/min to 1665 Mgal/d)
- **Medium temperature range** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: –20 to +50 °C (–4 to +122 °F) Liner material PTFE: –20 to +90 °C (–4 to +160°F)
- **Max. process pressure** PN 40, Class 300, 20K
- **Wetted materials** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: –20 to +50 °C (–4 to +122

°F) Liner material PTFE: –20 to +90 °C (–4 to +160 °F) Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

Field of application: Thanks to its international approvals (e.g. for drinking water), Promag W serves a wide variety of applications. It is available as both compact or remote version. With its straightforward hard- and software design, Promag W 10 simplifies every step in its life cycle from engineering to servicing at usual Endress+Hauser quality. Heartbeat Technology ensures measurement reliability and compliant verification.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Product headline

Flowmeter for basic water and wastewater applications with easy-to-use operation concept.
Reliable measurement at constant accuracy with 0 x DN inlet run without pressure loss.
Suitable for elementary measurement tasks such as raw water intake.

Sensor features

Flexible engineering – sensor with fixed or lap-joint process connections. Application fitness – EN ISO 12944 corrosion protection for underground or underwater installation. Improved plant availability – sensor compliant with industry-specific requirements.
International drinking water approvals. Degree of protection IP68 (Type 6P enclosure). International drinking water approvals. Installation length: DVGW/ISO conform.

Liquids

Transmitter features

Optimum usability – operation with mobile devices and SmartBlue app or display with touch screen. Simple, time-saving commissioning – guided parameterization in advance and in the field. Integrated verification – Heartbeat Technology.
System integration with HART, Modbus RS485. Flexible operation with app and optional display.

Nominal diameter range

DN 25 to 3000(1 to 120")

Wetted materials

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)
Liner material polyurethane: –20 to +50 °C (–4 to +122 °F)
Liner material PTFE: –20 to +90 °C (–4 to +160 °F)
Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

Measured variables

Volume flow, conductivity, mass flow

Max. measurement error

Volume flow (standard): ±0.5 % o.r. ± 1 mm/s (0.04 in/s)

Measuring range

0.5 m3/h to 263000 m3/h (2.5gal/min to 1665 Mgal/d)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)
Liner material polyurethane: –20 to +50 °C (–4 to +122 °F)
Liner material PTFE: –20 to +90 °C (–4 to +160°F)

Ambient temperature range

-40 to 60°C (-40 to 140°F)

Liquids

Sensor housing material
DN 25 to 300 (1 to 12"): AlSi10Mg, coated
DN 350 to 2000 (14 to 78"): Carbon steel with protective varnish

Transmitter housing material
Polycarbonat; AlSi10Mg, coated

Degree of protection
Compact version: IP66/67, type 4X enclosure
Sensor remote version (standard): IP66/67, type 4X enclosure
Sensor remote version (option): IP68, type 6P enclosure, with protective varnish according to EN ISO 12944 C5-M/Im1/Im2/Im3

Display/Operation
LCD display with touch & auto rotate

Outputs
4-20 mA HART (active/passive), Pulse/frequency/switch output
Modbus RS485, 4-20 mA

Digital communication
HART, MODBUS RS485

Power supply
DC 24 V
AC 100 to 230 V
AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals
CSA, GP

Metrological approvals and certificates
Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)
Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Liquids

Pressure approvals and certificates
CRN, PED

Material certificates
3.1 material

Hygienic approvals and certificates
Drinking water approvals: ACS, KTW/W270, NSF 61, WRAS BS 6920

More information **www.endress.com/5WBB**