

# Proline Promag W 10 electromagnetic flowmeter

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



Meer informatie en actuele prijzen:

[www.be.endress.com/5WBB](http://www.be.endress.com/5WBB)

## Voordelen:

- 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

## Overzicht specificaties

- **Max. meetfout** Volume flow (standard):  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s)
- **Measuring range** 9 dm<sup>3</sup>/min to 162 000 m<sup>3</sup>/h (2.5 gal/min to 100 000 gal/min)
- **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)

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

**Toepassingsgebied:** 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.

## Kenmerken en specificaties

### Liquids

#### Meetprincipe

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.

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### Nominal diameter range

DN 25 to 2400 (1 to 90")

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### 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)

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### Measured variables

Volume flow, conductivity, mass flow

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### Max. meetfout

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

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### Measuring range

9 dm<sup>3</sup>/min to 162 000 m<sup>3</sup>/h (2.5 gal/min to 100 000 gal/min)

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### Max. process pressure

PN 40, Class 300, 20K

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### 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)

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### Ambient temperature range

–40 to 60 °C (–40 to 140 °F)

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## 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

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### Transmitter housing material

Polycarbonat; AlSi10Mg, coated

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### 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

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### Display/Operation

LCD display with touch & auto rotate

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### Outputs

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

Modbus RS485, 4-20 mA

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### Digital communication

HART, MODBUS RS485

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### Power supply

DC 24 V

AC 100 to 230 V

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

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### Hazardous area approvals

CSA, GP

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### 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)

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## Liquids

### **Pressure approvals and certificates**

CRN, PED

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### **Material certificates**

3.1 material

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### **Hygienic approvals and certificates**

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

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