

# Proline Promag D 10 electromagnetic flowmeter

Highly cost-effective wafer flowmeter with  
easy-to-use operation concept



More information and current pricing:

[www.us.endress.com/5DBB](http://www.us.endress.com/5DBB)

## Benefits:

- Easy, fast centering of the sensor – innovative housing construction
- Energy-saving flow measurement – no pressure loss due to cross section constriction
- Maintenance-free – no moving parts
- 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):  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s)
- **Measuring range** 9 dm<sup>3</sup>/min to 282 m<sup>3</sup>/h (2.5 gal/min to 1250 gal/min)
- **Medium temperature range** Liner material polyamide: 0 to +60°C (+32 to +140°F)
- **Max. process pressure** PN 16, Class 150, 10K
- **Wetted materials** Liner material polyamide: 0 to +60°C (+32 to +140°F) Electrodes: 1.4435 (316L)

**Field of application:** The wafer flowmeter Promag D is designed for all basic water applications where space is at a minimum. With its straightforward hard- and software design, Promag D 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.

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## Features and specifications

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### Liquids

**Measuring principle**

Electromagnetic

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**Product headline**

Highly cost-effective wafer flowmeter with easy-to-use operation concept.

For basic water applications, optimized for limited space and plastic pipe installations.

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**Sensor features**

Easy, fast centering of the sensor – innovative housing construction.  
Energy-saving flow measurement – no pressure loss due to cross section constriction. Maintenance-free – no moving parts.  
Short face-to-face length and low weight. Integrated ground disks made of stainless steel. International drinking water approvals.

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**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.

2-line display with push buttons. Device as compact or remote version. HART.

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**Nominal diameter range**

DN 25 to 100 (1 to 4")

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**Wetted materials**

Liner material polyamide: 0 to +60°C (+32 to +140°F)

Electrodes: 1.4435 (316L)

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**Measured variables**

Volume flow, conductivity, mass flow

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**Max. measurement error**

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

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## Liquids

**Measuring range**

9 dm<sup>3</sup>/min to 282 m<sup>3</sup>/h (2.5 gal/min to 1250 gal/min)

**Max. process pressure**

PN 16, Class 150, 10K

**Medium temperature range**

Liner material polyamide: 0 to +60°C (+32 to +140°F)

**Ambient temperature range**

-40 to 60°C (-40 to 140°F)

**Sensor housing material**

DN 25 to 100 (1 to 12"): AlSi10Mg, coated

**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

**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

## Liquids

### **Product safety**

Product safety

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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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### **Hygienic approvals and certificates**

Hygienic approvals and certificates

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