

Proline Promag D 10 electromagnetic flowmeter

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



More information and current pricing:

www.de.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. ± 1 mm/s (0.04 in/s)
- **Measuring range** 9 dm³/min to 162 000 m³/h (2.5 gal/min to 100 000 gal/min)
- **Medium temperature range** Liner material polyamide: 0 to +60°C (+32 to +140°F)
- **Max. process pressure** PN 40, Class 300, 20K
- **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.

Features and specifications

Liquids

Measuring principle

Electromagnetic

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.

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.

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.

Nominal diameter range

DN 25 to 100 (1 to 4")

Wetted materials

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

Electrodes: 1.4435 (316L)

Measured variables

Volume flow, conductivity, mass flow

Max. measurement error

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

Liquids

Measuring range

9 dm³/min to 162 000 m³/h (2.5 gal/min to 100 000 gal/min)

Max. process pressure

PN 40, Class 300, 20K

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

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)

Hygienic approvals and certificates

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