

# Proline Promag P 10 electromagnetic flowmeter

Flowmeter for basic process applications with  
easy-to-use operation concept



Mais informações e preço atual:

[www.br.endress.com/5PB8](http://www.br.endress.com/5PB8)

## Benefícios:

- Diverse applications – wide variety of wetted materials
- 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

## Especificações resumidas

- **Max. measurement error** Volume flow (standard):  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s)
- **Measuring range** 4 dm<sup>3</sup>/min to 9600 m<sup>3</sup>/h (1 gal/min to 44 000 gal/min)
- **Medium temperature range** Liner material PFA:  $-20$  to  $+150$  °C ( $-4$  to  $+302$  °F) Liner material PTFE:  $-40$  to  $+130$  °C ( $-40$  to  $+266$  °F)
- **Max. process pressure** PN 40, Class 300, 20K
- **Wetted materials** Liner: PFA; PTFE Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum; Platinum; Titanium

**Campo de aplicação:** Promag P is dedicated to chemical and process applications with corrosive liquids and high medium temperatures. With its straightforward hard- and software design, Promag P 10 simplifies every step in its life cycle from engineering to servicing at usual Endress+Hauser quality. Heartbeat Technology ensures safe processes.

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## Características e especificações

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### Liquids

**Measuring principle**

Electromagnetic

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**Product headline**

Flowmeter for basic process applications with easy-to-use operation concept.

Dedicated to chemical and process applications with corrosive liquids.

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**Sensor features**

Diverse applications – wide variety of wetted materials. Energy-saving flow measurement – no pressure loss due to cross section constriction.

Maintenance-free – no moving parts.

Nominal diameter: max. DN 600 (24"). All common Ex approvals. Liner made of PTFE or PFA.

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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.

System integration with HART, Modbus RS485. Flexible operation with app and optional display.

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**Nominal diameter range**

DN 15 to 600 (½ to 24")

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**Wetted materials**

Liner: PFA; PTFE

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022);

Tantalum; Platinum; Titanium

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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**

4 dm<sup>3</sup>/min to 9600 m<sup>3</sup>/h (1 gal/min to 44 000 gal/min)

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**Max. process pressure**

PN 40, Class 300, 20K

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**Medium temperature range**

Liner material PFA: -20 to +150 °C (-4 to +302 °F)

Liner material PTFE: -40 to +130 °C (-40 to +266 °F)

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**Ambient temperature range**

Flange material carbon steel: -10 to +60 °C (+14 to +140 °F)

Flange material stainless steel: -40 to +60 °C (-40 to +140 °F)

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**Sensor housing material**

DN 15 to 300 (½ to 12"): AlSi10Mg, coated

DN 350 to 600 (14 to 24"): Carbon steel with protective varnish

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**Transmitter housing material**

AlSi10Mg, coated

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**Degree of protection**

Standard: IP66/67, Type 4X enclosure

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**Display/Operation**

2.4" LCD display with touch & auto rotate; Configuration and operation via SmartBlue App (Bluetooth) possible

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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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## Liquids

### **Hazardous area approvals**

ATEX, IECEx, cCSAus, EAC, NEPSI, INMETRO, JPN, UK Ex

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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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### **Pressure approvals and certificates**

PED, CRN

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### **Material certificates**

3.1 material

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### **Hygienic approvals and certificates**

Drinking water approvals: ACS; NSF61, WRAS

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