

# Proline Promag P 200 electromagnetic flowmeter

The flowmeter for highest medium temperatures with genuine loop-powered technology



More information and current pricing:

[www.be.endress.com/5P2B](http://www.be.endress.com/5P2B)

## Benefits:

- Versatile applications – wide variety of wetted materials
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Maintenance-free – no moving parts
- Convenient device wiring – separate connection compartment
- Safe operation – no need to open the device due to display with touch control, background lighting
- Integrated verification – Heartbeat Technology

## Specs at a glance

- **Max. measurement error** Volume flow:  $\pm 0.5\%$  o.r.  $\pm 2$  mm/s (0.08 in/s)
- **Measuring range** 4 dm<sup>3</sup>/min to 1100 m<sup>3</sup>/h (1 to 4850 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

**Field of application:** Promag P is dedicated to chemical and process applications with corrosive liquids and high medium temperatures. With genuine loop-powered technology, Promag P 200 enables cost-effective and seamless integration into existing infrastructures. It offers highest operational safety in hazardous areas thanks to its intrinsically safe design (Ex ia). Heartbeat Technology ensures process safety at all times.

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## Features and specifications

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### Liquids

**Measuring principle**

Electromagnetic

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**Product headline**

The flowmeter for highest medium temperatures with genuine loop-powered technology.

Dedicated to chemical and process applications with corrosive liquids and high medium temperatures.

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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 200 (8"). All common Ex approvals. Liner made of PTFE or PFA.

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**Transmitter features**

Convenient device wiring – separate connection compartment. Safe operation – no need to open the device due to display with touch control, background lighting. Integrated verification – Heartbeat Technology. Loop-powered technology. Robust dual-compartment housing. Plant safety: worldwide approvals (SIL, Haz. area).

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**Nominal diameter range**

DN 15 to 200 (½ to 8")

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**Wetted materials**

Liner: PFA; PTFE

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

Tantalum; Platinum

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**Measured variables**

Volume flow, mass flow

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**Max. measurement error**

Volume flow:  $\pm 0.5\%$  o.r.  $\pm 2$  mm/s (0.08 in/s)

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## Liquids

**Measuring range**

4 dm<sup>3</sup>/min to 1100 m<sup>3</sup>/h (1 to 4850 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**

AlSi10Mg, coated

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**Transmitter housing material**

AlSi10Mg, coated

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**Degree of protection**

IP66/67, type 4X enclosure

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**Display/Operation**

4 - line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Remote display available

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**Outputs**

4 - 20 mA HART (passive)

Pulse/frequency/switch output (passive)

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**Inputs**

None

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**Digital communication**

HART, PROFIBUS PA, FOUNDATION Fieldbus

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## Liquids

### Power supply

DC 18 to 35 V (4 - 20 mA HART with/without pulse/frequency/switch output)

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### Hazardous area approvals

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

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### Other approvals and certificates

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### Product safety

CE, C-Tick

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### Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

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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

CRN, PED

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### Material certificates

3.1 material

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### Hygienic approvals and certificates

Drinking water approvals: ACS, NSF 61

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