

## Proline Promag 10P electromagnetic flowmeter

The flowmeter for highest medium temperatures with a highly cost-effective transmitter



More information and current pricing:

[www.casc.endress.com/10P](http://www.casc.endress.com/10P)

### 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
- Cost-effective – designed for easy applications and direct integration
- Safe operation – display provides easily readable process information
- Fully industry compliant – IEC/EN/NAMUR

### Specs at a glance

- **Max. measurement error** Volume flow:  $\pm 0,5\%$  o.r.  $\pm 2$  mm/s ( $\pm 0,5\%$  o.r.  $\pm 0,08$  in/s)
- **Measuring range** 4 dm<sup>3</sup>/min to 9600 m<sup>3</sup>/h (0.5 gal/min to 44000 gal/min)
- **Medium temperature range**  $-40$  to  $+130^{\circ}\text{C}$  ( $-40$  to  $+266^{\circ}\text{F}$ )
- **Max. process pressure** PN40 Cl. 300 JIS 20K AS 2129 Table E
- **Wetted materials** Liner: PTFE Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

**Field of application:** Promag P is the preferred sensor for applications with highest requirements in a multitude of industries. Combined with the Promag 10 transmitter for basic applications and direct integration, Promag 10P is dedicated for chemical and process applications with corrosive liquids and high medium temperatures. It will be the preferred solution for customers aiming for minimized cost of ownership. Promag 10P is available as compact or remote version.

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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 a highly cost-effective transmitter.

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 600 (24"). All common process connections.

Liner made of PTFE.

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**Transmitter features**

Cost-effective – designed for easy applications and direct integration.

Safe operation – display provides easily readable process information.

Fully industry-compliant – IEC/EN/NAMUR.

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

HART.

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**Nominal diameter range**

DN 15 to 600

1/2" to 24"

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**Wetted materials**

Liner: PTFE

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

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**Measured variables**

Volume flow

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**Max. measurement error**

Volume flow:  $\pm 0,5\%$  o.r.  $\pm 2$  mm/s ( $\pm 0,5\%$  o.r.  $\pm 0,08$  in/s)

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## Liquids

**Measuring range**

4 dm<sup>3</sup>/min to 9600 m<sup>3</sup>/h (0.5 gal/min to 44000 gal/min)

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**Max. process pressure**

PN40

Cl. 300

JIS 20K

AS 2129 Table E

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**Medium temperature range**

-40 to +130°C (-40 to +266°F)

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**Ambient temperature range**

-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**

Powder-coated die-cast aluminum

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**Degree of protection**

Standard: IP 67 (Type 4X enclosure) for transmitter and sensor

Optional: IP 68 (Type 6P enclosure) for remote version of sensor

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**Display/Operation**

2 - line display with push buttons

Configuration via local display and operating tools possible

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**Outputs**

4 - 20 mA HART (active)

Pulse/switch output (passive)

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**Inputs**

None

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**Digital communication**

HART

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## Liquids

### Power supply

DC 11 to 40 V

AC 85 to 250 V (45 to 65 Hz)

AC 20 to 28 V (45 to 65 Hz)

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### Hazardous area approvals

FM

CSA

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### Product safety

CE, C-tick, EAC marking

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### Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)

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### Pressure approvals and certificates

PED

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