

# Proline Promag 10E

## Electromagnetic flowmeter

The economical flowmeter with a highly cost-effective transmitter



More information and current pricing:

[www.ca.endress.com/10E](http://www.ca.endress.com/10E)

### Benefits:

- Cost-effective sensor – ideal solution for basic requirements
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Maintenance-free – no moving parts
- Cost-effective – designed for easily applications and direct integration
- Safe operation – display provides easy readable process information
- Fully industry compliant – IEC/EN/NAMUR

### Specs at a glance

- **Max. measurement error** Volume flow:  $\pm 0.5\%$  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 to 44 000 gal/min)
- **Medium temperature range** -10 to +110 °C (+14 to +230 °F)
- **Max. process pressure** PN 40, Class 150, 20K
- **Wetted materials** Liner: PTFE Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022)

**Field of application:** Promag E is a streamlined sensor for basic chemical applications. It is the most economical solution for our chemical customers. Combined with the Promag 10 transmitter for basic applications and direct integration, Promag 10E offers accurate measurement of liquids for a wide range of applications. It will be the preferred solution for customers aiming for minimized cost of ownership. Promag 10E is available as compact or remote version.

### Features and specifications

## Liquids

### Measuring principle

Electromagnetic

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### Product headline

The economical flowmeter with a highly cost-effective transmitter. Fully suitable for basic applications in the chemical and process industry.

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### Sensor features

Cost-effective sensor – ideal solution for basic requirements. 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 (½ 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.  $\pm 1$  mm/s (0.04 in/s)

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### Measuring range

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

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### Max. process pressure

PN 40, Class 150, 20K

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## Liquids

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### Medium temperature range

-10 to +110 °C (+14 to +230 °F)

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### Ambient temperature range

-10 to +60 °C (+14 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

Sensor connection housing: AlSi10Mg, coated

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### Transmitter housing material

Powder - coated die - cast aluminum

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### Degree of protection

Compact version: IP67, type 4X enclosure

Sensor remote version (standard): IP67, type 4X enclosure

Sensor remote version (option): IP68, type 6P enclosure

Transmitter remote version: IP67, type 4X enclosure

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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

cCSAus

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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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More information [www.ca.endress.com/10E](http://www.ca.endress.com/10E)