

# Proline Promag E 100 Elektromagnetische flowmeter

## De economische flowmeter met een ultracompacte transmitter



Meer informatie en actuele prijzen:

[www.be.endress.com/5E1B](http://www.be.endress.com/5E1B)

### Voordelen:

- Kostenefficiënte sensor – ideale oplossing voor basistoepassingen
- Energiebesparende flowmeting – geen drukverlies door vernauwing van de doorsnede
- Onderhoudsvrij – geen bewegende onderdelen
- Ruimtebesparende transmitter – volledige functionaliteit in een zeer kleine ruimte
- Tijdbesparende lokale bediening zonder aanvullende software en hardware – geïntegreerde webserver
- Geïntegreerde verificatie – Heartbeat Technology

### Overzicht specificaties

- **Max. meetfout** Volume flow (standard):  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s) Volume flow (option):  $\pm 0.2\%$  o.r.  $\pm 2$  mm/s (0.08 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); Tantalum

**Toepassingsgebied:** Promag E, de beproefde sensor voor het economisch meten van geleidende vloeistoffen, is geschikt voor diverse basistoepassingen in de chemische industrie en de procesindustrie. Zijn ultracompacte transmitter levert maximale prestaties en zorgt voor een naadloze systeemintegratie, waardoor de Promag E 100 de voorkeur heeft van skidbouwers, productfabrikanten en systeemintegrators.

Heartbeat Technology waarborgt de compatibiliteit en de procesveiligheid.

## Kenmerken en specificaties

### Liquids

#### Meetprincipe

Electromagnetic

#### Product headline

The economical flowmeter with an ultra-compact transmitter. Fully suitable for basic applications in the chemical and process industry.

#### 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"). Ex approvals for Zone 2. Liner made of PTFE.

#### Transmitter features

Space-saving transmitter – full functionality on the smallest footprint. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Robust, ultra-compact transmitter housing. Local display available.

#### Nominal diameter range

DN 15 to 600 (½ to 24")

#### Wetted materials

Liner: PTFE

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

#### Measured variables

Volume flow, conductivity, mass flow

#### Max. meetfout

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

Volume flow (option):  $\pm 0.2$  % o.r.  $\pm 2$  mm/s (0.08 in/s)

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## Liquids

**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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**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

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**Transmitter housing material**

AlSi10Mg, coated

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**Degree of protection**

IP67, type 4X enclosure

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**Display/Operation**

4 - line backlit display available (no local operation)

Configuration via web browser and operating tools possible

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**Outputs**

4 - 20 mA HART (active)

Pulse/frequency/switch output (passive)

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**Inputs**

None

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**Digital communication**

HART, PROFIBUS DP, Modbus RS485, EtherNet/IP, PROFINET

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**Power supply**

DC 20 to 30 V

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## Liquids

### **Hazardous area approvals**

ATEX, IECEx, cCSAus, INMETRO, EAC

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### **Product safety**

CE, C-Tick

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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

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### **Material certificates**

3.1 material

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Meer informatie [www.be.endress.com/5E1B](http://www.be.endress.com/5E1B)