

# Proline Promag W 300

## Elektromagnetische flowmeter

Specialist voor veeleisende water- en afvalwatertoepassingen met een compacte, gemakkelijk toegankelijke transmitter



### Voordelen:

- Betrouwbare meting met constante nauwkeurigheid met een inlaatlengte van 0 x DN en geen drukverlies
- Flexibele techniek – sensor met gelaste of lap-joint procesaansluitingen
- Lange levensduur – robuuste en volledig gelaste sensor
- Verbeterde beschikbaarheid van de installatie – sensor voldoet aan de specifieke eisen van de industrie
- Volledige toegang tot proces- en diagnose-informatie – talrijke, vrij te combineren I/O's en veldbussen
- Verminderde complexiteit en verscheidenheid – vrij configureerbare I/O-functionaliteit
- Geïntegreerde verificatie – Heartbeat Technology

Meer informatie en actuele prijzen:

[www.be.endress.com/5W3B](http://www.be.endress.com/5W3B)

### 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), Flat Spec
- **Measuring range** 9 dm<sup>3</sup>/min to 162 000 m<sup>3</sup>/h (2.5 gal/min to 100 000 gal/min)
- **Medium temperature range** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: -20 to +50 °C (-4 to +122 °F) Liner material PTFE: -20 to +90 °C (-4 to +194 °F)
- **Max. process pressure** PN 40, Class 300, 20K
- **Wetted materials** Liner: Polyurethane; Hard rubber, PTFE Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum

**Toepassingsgebied:** De Promag W 300 is ontworpen voor betrouwbaar gebruik in gevaarlijke omgevingen en onder extreme omstandigheden. Zijn compacte transmitter biedt een hoge flexibiliteit wat betreft bediening en systeemintegratie: toegang vanaf een webserver, weergave op afstand en verbeterde connectiviteitsopties. Bovendien garandeert de Heartbeat Technology betrouwbare metingen en verificaties volgens de regels.

## Kenmerken en specificaties

### Liquids

#### Meetprincipe

Electromagnetic

#### Product headline

Specialist for demanding water and wastewater applications with a compact, easily accessible transmitter.

Reliable measurement at constant accuracy with 0 x DN inlet run and no pressure loss.

Dedicated to the measurement of industrial or municipal water and wastewater .

#### Sensor features

Flexible engineering – sensor with fixed or lap-joint process connections.

Long-term operation – robust and completely welded sensor. Improved plant availability – sensor compliant with industry-specific requirements.

International drinking water approvals.

#### Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology.

Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access. Remote display available.

#### Nominal diameter range

DN 25 to 2400(1 to 90")

## Liquids

### Wetted materials

Liner: Polyurethane; Hard rubber, PTFE

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

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### Measured variables

Volume flow, conductivity, mass flow

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### 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), Flat Spec

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### Measuring range

9 dm<sup>3</sup>/min to 162 000 m<sup>3</sup>/h (2.5 gal/min to 100 000 gal/min)

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### Max. process pressure

PN 40, Class 300, 20K

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### Medium temperature range

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)

Liner material polyurethane: -20 to +50 °C (-4 to +122 °F)

Liner material PTFE: -20 to +90 °C (-4 to +194 °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 25 to 300 (1 to 12"): AlSi10Mg, coated

DN 25 to 2400 (1 to 90"): Carbon steel with protective varnish

Sensor connection housing (standard): AlSi10Mg, coated

Sensor connection housing (option): Polycarbonate; 1.4409 (CF3M) similar to 316L

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### Transmitter housing material

AlSi10Mg, coated; 1.4409 (CF3M) similar to 316L; stainless steel for hygienic transmitter design

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## Liquids

### 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

3 outputs:  
4-20 mA HART (active/passive)  
4-20 mA WirelessHART  
4-20 mA (active/passive)  
Pulse/frequency/switch output (active/passive)  
Double pulse output (active/passive)  
Relay output

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### Inputs

Status input 4-20 mA input

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### Digital communication

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus  
RS485, Profinet, Ethernet/IP, OPC-UA

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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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### Hazardous area approvals

ATEX, IECEx, cCSAus, Nepsi, INMETRO, UK Ex

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### Product safety

CE, C-tick, EAC marking

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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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## Liquids

### **Metrological approvals and certificates**

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

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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### **Marine approvals and certificates**

LR approval, DNV GL approval, ABS approval, BV approval

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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**

ACS, KTW/W270, NSF 61, WRAS BS 6920

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