

# Proline Promag 55S elektromagnetische flowmeter

De flowmeter met uitstekende slijtvastheid en geïntegreerde vaste-stofdiagnose



Meer informatie en actuele prijzen:

[www.be.endress.com/55S](http://www.be.endress.com/55S)

## Voordelen:

- Superieure signaalstabiliteit dankzij de unieke signaalverwerking
- Maximale veiligheid – voor de industrie geoptimaliseerde meetelektroden en bekledingen
- Energiebesparende flowmeting – geen drukverlies door vernauwing van de doorsnede
- Onderhoudsvrij – geen bewegende onderdelen
- Optimale prestaties – met geïntegreerde vaste-stofmeting voor veeleisende vloeistoffen
- Maximale veiligheid – geïntegreerde elektrodereiniging
- Automatisch herstel van gegevens voor onderhoud

## Overzicht specificaties

- **Max. meetfout** Volume flow:  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s)  
Option:  $\pm 0.2\%$  o.r.  $\pm 2$  mm/s (0.08 in/s)
- **Measuring range** 0.06 dm<sup>3</sup>/min to 600 m<sup>3</sup>/h (0.015 gal/min to 2650 gal/min)
- **Medium temperature range** 0 to +60 °C (+32 to +140 °F), 0 to +80 °C (+32 to +176 °F), -20 to +50 °C (-4 to +122 °F), -20 to +180 °C (-4 to +356 °F), -20 to +150 °C (-4 to +266 °F)
- **Max. process pressure** PN 40, Cl. 300, JIS 20 K
- **Wetted materials** Liner: Polyurethane, Hard rubber, PFA, PTFE, Natural rubber Electrodes: 1.4435/304L, Alloy C-22, Tantalum, Platinum, Duplex 1.4465, Tungsten carbide, Titanium

**Toepassingsgebied:** De Promag S is de keuze voor niet-homogene, abrasieve en corrosieve vloeistoffen. Het robuuste sensorontwerp, met voor de industrie geoptimaliseerde bekledingen, maakt de sensor geschikt voor de meest uitdagende omgevingen en meettaken, zoals

afvalwaterverwerking, pulp- en papierproductie of in de primaries- & metaalindustrie. Dankzij de hoogwaardige transmitter meet de Promag 55S niet alleen de flow op een betrouwbare manier, maar berekent deze ook het vaste-stofgehalte, terwijl het onderhoud minimaal is.

## Kenmerken en specificaties

### Liquids

#### Meetprincipe

Electromagnetic

#### Product headline

The flowmeter with outstanding abrasion resistance and integrated solids content diagnostics.

Superb signal stability due to unique signal processing.

Ideal for the most demanding applications with high solids content and high abrasion.

#### Sensor features

Maximum safety – industry-optimized measuring electrodes and linings. Energy-saving flow measurement – no pressure loss due to cross section constriction. Maintenance-free – no moving parts.

Intensified coil system. Large range of liners. Solids content up to 80 % by weight.

#### Transmitter features

Highest performance – with integrated solids measurement for demanding fluids. Highest safety – integrated electrode cleaning.

Automatic recovery of data for servicing.

4-line backlit display with touch control. Two switch outputs. HART, PROFIBUS PA/DP, FOUNDATION Fieldbus.

#### Nominal diameter range

DN 15...600

1/2"...24"

## Liquids

### Wetted materials

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Electrodes: 1.4435/304L, Alloy C-22, Tantalum, Platinum, Duplex 1.4465, Tungsten carbide, Titanium

### Measured variables

Volume flow, electrical conductivity, mass flow

### Max. meetfout

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

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

### Measuring range

0.06 dm<sup>3</sup>/min to 600 m<sup>3</sup>/h (0.015 gal/min to 2650 gal/min)

### Max. process pressure

PN 40, Cl. 300, JIS 20 K

### Medium temperature range

0 to +60 °C (+32 to +140 °F), 0 to +80 °C (+32 to +176 °F), -20 to +50 °C (-4 to +122 °F), -20 to +180 °C (-4 to +356 °F), -20 to +150 °C (-4 to +266 °F)

### Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

### Sensor housing material

Aluminum coated AlSi10Mg, carbon steel with protective varnish

### Transmitter housing material

Powder-coated die-cast aluminum

### Degree of protection

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

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

## Liquids

### Display/Operation

Liquid-crystal display: illuminated, four lines with 16 characters per line  
Onsite operation with three optical sensor keys

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### Outputs

4...20mA  
(active/passive) Pulse-/ Frequency output (active/passive)  
Two status outputs

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### Inputs

Status  
Current input

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### Digital communication

HART, PROFIBUS DP/PA, FOUNDATION Fieldbus

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### Power supply

AC 20 to 260 V  
DC 20 to 64 V

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### Hazardous area approvals

ATEX, FM, CSA, UK Ex

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### Product safety

CE, C-tick, EAC marking

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

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