

# Proline Promag 51P electromagnetic flowmeter

The flowmeter for highest medium temperatures with a transmitter for custody transfer



More information and current pricing:

[www.sg.endress.com/51P](http://www.sg.endress.com/51P)

## Benefits:

- Versatile applications – wide variety of wetted materials
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Quality – designed for custody transfer; featuring worldwide recognized metrological approvals
- Safe operation – display provides easy readable process information
- Fully industry compliant – IEC/EN/NAMUR
- Maintenance-free – no moving parts

## Specs at a glance

- **Max. measurement error**  $\pm 0.5\%$   $\pm 0.2\%$  (optional)
- **Measuring range** 0...9'600 m<sup>3</sup>/h
- **Medium temperature range** -40...+150°C (-40...+302°F)
- **Max. process pressure** PN10...40

**Field of application:** Promag P is the preferred sensor for applications with highest requirements in a multitude of industries. Combined with the proven Promag 51 transmitter with push buttons, Promag 51P offers highly accurate measurement of liquids. Promag 51P is dedicated for chemical and process applications with corrosive liquids and high medium temperatures. It will be the preferred solution for customers needing custody transfer measurement. Promag 51P is available in a compact or remote version.

## Features and specifications

## Liquids

### Measuring principle

Electromagnetic

### Product headline

The flowmeter for highest medium temperatures with a transmitter for custody transfer. Dedicated for chemical and process applications with corrosive liquids and high medium temperatures.

### Sensor features

Versatile 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 Ex approvals.

### Transmitter features

Quality – designed for custody transfer; featuring worldwide recognized metrological approvals. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. Transmitter certified to MI - 001. Device in compact or remote version.

### Nominal diameter range

DN 15...600

1/2"...24"

### Max. measurement error

±0.5%

±0.2% (optional)

### Measuring range

0...9'600 m<sup>3</sup>/h

### Max. process pressure

PN10...40

### Medium temperature range

-40...+150°C

(-40...+302°F)

## Liquids

**Ambient temperature range**

-20...+60°C  
-40...+60°C (optional)

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**Degree of protection**

IP 67 (NEMA 4x)  
IP 68 (Nema 6P)

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**Display/Operation**

Two line display with backlit  
Push button

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**Outputs**

4...20 mA  
Pulse/Frequency  
Status

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**Inputs**

Status

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**Digital communication**

HART

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**Hazardous area approvals**

ATEX

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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)  
Custody transfer approvals: MI-001, PTB

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