

Promag 50E



More information and current pricing:

www.jp.endress.com/50E

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
- Fast commissioning – application-specific Quick Setups
- Safe operation – display provides easily readable process information
- Fully industry compliant – IEC/EN/NAMUR

Specs at a glance

- **Max. measurement error** Volume flow (standard): $\pm 0.5\%$ o.r. ± 1 mm/s (0.04 in/s) Volume flow (option): $\pm 0.2\%$ o.r. ± 2 mm/s (0.08 in/s)
- **Measuring range** 4 dm³/min to 9600 m³/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

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 proven Promag 50 transmitter with push buttons, Promag 50E offers accurate measurement of liquids for a wide range of standard applications. Promag 50E is available as compact or remote version.

Features and specifications

Liquids

Measuring principle

Electromagnetic

Liquids

Product headline

The economical flowmeter with a modular electronic concept.
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

Quality – designed for custody transfer; featuring worldwide recognized metrological approvals. Safe operation – display provides easily readable process information. Fully industry-compliant – IEC/EN/NAMUR.

2-line backlit display with push buttons. Device as compact or remote version. HART, PROFIBUS PA/DP.

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

Max. measurement error

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

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

Measuring range

4 dm³/min to 9600 m³/h (1 to 44 000 gal/min)

Max. process pressure

PN 40, Class 150, 20K

Liquids

Medium temperature range

-10 to +110 °C (+14 to +230 °F)

Ambient temperature range

-10 to +60 °C (+14 to +140 °F)

Sensor housing material

AlSi10Mg, coated; carbon steel with protective coating

Transmitter housing material

Powder - coated die - cast aluminum

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

Display/Operation

2 - line backlit display with push buttons

Configuration via local display and operating tools possible

Outputs

3 outputs:

0 - 20 mA (active)/4 - 20 mA (active/passive)

Pulse/frequency output (passive)

Switch output (passive)

Inputs

Status input

Digital communication

HART

PROFIBUS PA/DP

Power supply

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

Liquids

Hazardous area approvals

ATEX, cCSAus

Product safety

CE, C-tick, EAC marking

Metrological approvals and certificates

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

Pressure approvals and certificates

PED

More information www.jp.endress.com/50E