

## Promag 50E



More information and current pricing:

[www.us.endress.com/50E](http://www.us.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.  $\pm 1$  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

**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

## Liquids

### Product headline

std\_productprofile\_product\_usp\_34675\_1508941655.

Fully suitable for basic applications in the chemical and process industry.

### Sensor features

Cost-effective sensor – ideal solution for basic requirements. Energy-saving 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 material: PTFE.

### Transmitter features

std\_productprofile\_product\_benefits\_34681\_1508942231.

std\_productprofile\_product\_benefits\_34683\_1508942232.

std\_productprofile\_product\_benefits\_34682\_1508942239.

std\_successorproducts\_product\_differentiating\_tech\_features\_35305\_1

std\_successorproducts\_product\_differentiating\_tech\_features\_35308\_1

std\_successorproducts\_product\_differentiating\_tech\_features\_35309\_1

### 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): ±0.5 % o.r. ± 1 mm/s (0.04 in/s)

Volume flow (option): ±0.2 % o.r. ± 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)

### 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 1

---

### **Pressure approvals and certificates**

PED

---

More information [www.us.endress.com/50E](http://www.us.endress.com/50E)