

## Proline Promass 40E Coriolis flowmeter

The flowmeter for minimized cost of ownership combined with a compact field transmitter



More information and current pricing:

[www.at.endress.com/40E](http://www.at.endress.com/40E)

### Benefits:

- Cost-effective – multi-purpose device; an alternative to conventional volumetric flowmeters
- Fewer process measuring points – multivariable measurement (flow, temperature)
- Space-saving installation – no in/outlet run needs
- Cost-effective – dedicated design for low-end applications and direct integration
- Safe operation – display provides easy readable process information
- Fully industry compliant – IEC/EN/NAMUR

### Specs at a glance

- **Max. measurement error** Mass flow (liquid):  $\pm 0.5\%$  Volume flow (liquid):  $\pm 0.5\%$  Mass flow (gas):  $\pm 1.0\%$  Density (liquid):  $\pm 0.0005 \text{ g/cm}^3$
- **Measuring range** 0 to 180 000 kg/h (0 to 6600 lb/min)
- **Medium temperature range**  $-40$  to  $+140$  °C ( $-40$  to  $+284$  °F)
- **Max. process pressure** PN 100, Class 600, 63K
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L)

**Field of application:** Promass E has a long standing reputation as a cost efficient solution for basic Coriolis applications. Combined with the Promass 40 transmitter for low-end applications and direct integration, Promass 40E offers highly accurate measurement of liquids and gases for a wide range of applications.

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## Features and specifications

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Gas

### Measuring principle

Coriolis

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### Product headline

The flowmeter for minimized cost of ownership combined with a compact field transmitter. Highly accurate measurement of liquids and gases for a wide range of standard applications.

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### Product headline

The economical alternative to conventional volume flowmeters

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### Sensor features

Cost-effective – multi-purpose device; an alternative to conventional volumetric flowmeters. Fewer process measuring points – multivariable measurement (flow, temp). Space-saving installation – no in/outlet run needs. Compact dual-tube system. Medium temperature up to +140 °C (+284°F).

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### Transmitter features

Cost-effective – dedicated design for low-end applications and direct integration. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2-line backlit display without local operation. Device in compact version.

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### Nominal diameter range

DN 8 to 80 ( $\frac{3}{8}$  to 3")

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### Wetted materials

Measuring tube: 1.4539 (904L)

Connection: 1.4404 (316/316L)

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### Measured variables

Mass flow, volume flow, corrected volume flow

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**Medium temperature range** $-40$  to  $+140\text{ }^\circ\text{C}$  ( $-40$  to  $+284\text{ }^\circ\text{F}$ )**Ambient temperature range**Standard:  $-20$  to  $+60\text{ }^\circ\text{C}$  ( $-4$  to  $+140\text{ }^\circ\text{F}$ )Option:  $-40$  to  $+60\text{ }^\circ\text{C}$  ( $-40$  to  $+140\text{ }^\circ\text{F}$ )**Sensor housing material**

1.4301 (304), corrosion resistant

**Transmitter housing material**

Powder-coated die-cast aluminium

**Degree of protection**

IP67, type 4X enclosure

**Display/Operation**

2-line backlit display without push buttons (direct integration)

Configuration via operating tools possible

**Outputs**

3 outputs:

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

Pulse/frequency/switch output (passive)

**Inputs**

Status input

## Gas

**Digital communication**

HART

**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)

**Hazardous area approvals**

ATEX, IECEX, FM, CSA, NEPSI, JPN

**Other approvals and certificates**

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

PED, CRN

3-A

**Product safety**

CE, C-tick, EAC marking

**Metrological approvals and certificates**

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

**Marine approvals and certificates**

Marine approval

**Pressure approvals and certificates**

PED, CRN

**Material certificates**

3.1 material

**Hygienic approvals and certificates**

3-A

## Liquids

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3-A

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