

Кориолисовые массовые расходомеры Promass E 200

Технические характеристики

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Proline Promass E 200 Coriolis flowmeter

Genuine loop-powered mid-range Coriolis flowmeter



Benefits:

- Cost-effective – multipurpose device; an alternative to conventional volumetric flowmeters
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Space-saving installation – no in-/outlet run needs
- Convenient device wiring – separate connection compartment
- Safe operation – no need to open the device due to display with touch control, background lighting
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Mass flow (liquid): $\pm 0.25\%$ (standard)
Volume flow (liquid): $\pm 0.25\%$ Mass flow (gas): $\pm 0.50\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$
- **Measuring range** 0 to 70 000 kg/h (0 to 2570 lb/min)
- **Medium temperature range** -40 to $+150 \text{ }^\circ\text{C}$ (-40 to $+302 \text{ }^\circ\text{F}$)
- **Max. process pressure** PN 100, Class 600, 63K
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L)

Field of application: The robust Promass E has a long-standing reputation as a reliable solution accurately measuring liquids and gases in a wide range of standard applications in the chemical industry. With genuine loop-powered technology, Proline E 200 enables cost-effective and seamless integration into existing infrastructures. The flowmeter offers highest operational safety in hazardous areas thanks to its intrinsically safe design (Ex ia). Heartbeat Technology enables process safety at all times.

Features and specifications

Liquids

Measuring principle

Coriolis

Product headline

Genuine loop-powered flowmeter for minimized cost of ownership. Accurate measurement of liquids and gases for a wide range of standard applications.

Sensor features

Cost-effective – multi-purpose device; an alternative to conventional volumetric flowmeters. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in-/outlet run needs.

Compact dual-tube sensor. Medium temperature up to +150 °C (+302 °F). Process pressure up to 100 bar (1450 psi).

Transmitter features

Convenient device wiring – separate connection compartment. Safe operation – no need to open the device due to display with touch control, background lighting. Integrated verification – Heartbeat Technology. Loop-powered technology. Robust dual-compartment housing. Plant safety: worldwide approvals (SIL, Haz. area).

Nominal diameter range

DN 8 to 50 (3/8 to 2")

Wetted materials

Measuring tube: 1.4539 (904L)

Connection: 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Liquids

Max. measurement error

Mass flow (liquid): ± 0.25 % (standard)

Volume flow (liquid): ± 0.25 %

Mass flow (gas): ± 0.50 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 70 000 kg/h (0 to 2570 lb/min)

Max. process pressure

PN 100, Class 600, 63K

Medium temperature range

-40 to +150 °C (-40 to +302 °F)

Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

AlSi10Mg, coated

Degree of protection

IP66/67, type 4X enclosure

Display/Operation

4-line backlit display with touch control

(operation from outside)

Configuration via local display and operating tools possible

Remote display available

Outputs

4-20 mA HART (passive)

4-20 mA (passive)

Pulse/frequency/switch output (passive)

Liquids

Inputs

None

Digital communication

HART, PROFIBUS PA, FOUNDATION Fieldbus

Power supply

DC 18 to 35 V (4-20 mA HART with/without pulse/frequency/switch)

DC 18 to 30 V (20 mA HART, 4-20 mA)

DC 9 to 32 V (PROFIBUS PA)

Hazardous area approvals

ATEX, IECEx, cCSAus, JPN, UK Ex

Product safety

CE, C-Tick

Functional safety

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

Metrological approvals and certificates

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

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, EHEDG, cGMP

Gas

Measuring principle

Coriolis

Gas

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Genuine loop-powered flowmeter for minimized cost of ownership. Accurate measurement of liquids and gases for a wide range of standard applications.

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Compact dual-tube sensor. Medium temperature up to +150 °C (+302 °F). Process pressure up to 100 bar (1450 psi).

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DN 8 to 50 (3/8 to 2")

Wetted materials

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Connection: 1.4404 (316/316L)

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Mass flow, density, temperature, volume flow, corrected volume flow, reference density

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Hazardous area approvals

ATEX, IECEx, cCSAus, JPN, UK Ex

Product safety

CE, C-Tick, EAC marking

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Material certificates

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Density/Concentration**Measuring principle**

Coriolis

Product headline

Genuine loop-powered flowmeter for minimized cost of ownership. Accurate measurement of liquids and gases for a wide range of standard applications.

Density/Concentration

Sensor features

Cost-effective – multi-purpose device; an alternative to conventional volumetric flowmeters. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in-/outlet run needs.

Compact dual-tube sensor. Medium temperature up to +150 °C (+302 °F). Process pressure up to 100 bar (1450 psi).

Transmitter features

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Nominal diameter range

DN 8 to 50 ($\frac{3}{8}$ to 2")

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Density/Concentration**Medium temperature range**

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