

Кориолисовые массовые расходомеры Promass E 300

Технические характеристики

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Proline Promass E 300 Coriolis flowmeter

Mid-range Coriolis flowmeter with a compact, easily accessible transmitter



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
- Full access to process and diagnostic information – numerous, freely combinable I/Os and Ethernet
- Reduced complexity and variety – freely configurable I/O functionality
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Mass flow (liquid): $\pm 0.15\%$ (standard), $\pm 0.10\%$ (option) Volume flow (liquid): $\pm 0.15\%$ Mass flow (gas): $\pm 0.50\%$ Density (liquid): $\pm 0.0005\text{ g/cm}^3$
- **Measuring range** 0 to 180 000 kg/h (0 to 6615 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 various industries. With its compact transmitter Promass E 300 offers high flexibility in terms of operation and system integration: access from one side, remote display, improved connectivity options. Heartbeat Technology enables measurement reliability and extension of recalibration cycles.

Features and specifications

Liquids

Measuring principle

Coriolis

Product headline

Flowmeter with minimized total cost of ownership and a compact, easily accessible transmitter.

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).

Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology.

Process pressure up to 100 bar (1450 psi). Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access.

Nominal diameter range

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

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, concentration

Liquids

Max. measurement error

Mass flow (liquid): $\pm 0.15\%$ (standard), $\pm 0.10\%$ (option)

Volume flow (liquid): $\pm 0.15\%$

Mass flow (gas): $\pm 0.50\%$

Density (liquid): $\pm 0.0005\text{ g/cm}^3$

Measuring range

0 to 180 000 kg/h (0 to 6615 lb/min)

Max. process pressure

PN 100, Class 600, 63K

Medium temperature range

-40 to $+150\text{ }^\circ\text{C}$ (-40 to $+302\text{ }^\circ\text{F}$)

Ambient temperature range

Standard: -40 to $+60\text{ }^\circ\text{C}$ (-40 to $+140\text{ }^\circ\text{F}$)

Option: -50 to $+60\text{ }^\circ\text{C}$ (-58 to $+140\text{ }^\circ\text{F}$)

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

AlSi10Mg, coated; stainless steel for hygienic transmitter design

Degree of protection

Standard: IP66/67, Type 4X enclosure

IP69

Display/Operation

4-line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Remote display available"

Liquids

Outputs

3 outputs:

4-20 mA HART (active/passive)

4-20 mA WirelessHART

4-20 mA (active/passive)

Pulse/frequency/switch output (active/passive)

Double pulse output (active/passive)

Relay output

Inputs

Status input

4-20 mA input

Digital communication

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus RS485, PROFINET, PROFINET over Ethernet-APL, Ethernet/IP, OPC-UA

Power supply

DC 24 V

AC 100 to 230 V

AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals

ATEX, IECEx, cCSAus, NEPSI, INMETRO, EAC, UK Ex, KC

Product safety

CE, C-tick, EAC marking

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)

Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Liquids

Marine approvals and certificates

LR approval, DNV approval, ABS approval, BV approval, CCS approval

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, EHEDG, cGMP

Gas

Measuring principle

Coriolis

Product headline

Flowmeter with minimized total cost of ownership and a compact, easily accessible transmitter.

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).

Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology.

Process pressure up to 100 bar (1450 psi). Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access.

Gas

Nominal diameter rangeDN 8 to 80 ($\frac{3}{8}$ to 3")**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, concentration

Max. measurement errorMass flow (liquid): ± 0.15 % (standard), ± 0.10 % (option)Volume flow (liquid): ± 0.15 %Mass flow (gas): ± 0.50 %Density (liquid): ± 0.0005 g/cm³**Measuring range**

0 to 180 000 kg/h (0 to 6615 lb/min)

Max. process pressure

PN 100, Class 600, 63K

Medium temperature range

-40 to +150 °C (-40 to +302 °F)

Ambient temperature range

Standard: -40 to +60 °C (-40 to +140 °F)

Option: -50 to +60 °C (-58 to +140 °F)

Sensor housing material

1.4301 (304), corrosion resistant

Transmitter housing material

AlSi10Mg, coated; stainless steel for hygienic transmitter design

Degree of protection

Standard: IP66/67, Type 4X enclosure

IP69

Gas

Display/Operation

4-line backlit display with touch control (operation from outside)
Configuration via local display and operating tools possible
Remote display available"

Outputs

3 outputs:
4-20 mA HART (active/passive)
4-20 mA WirelessHART
4-20 mA (active/passive)
Pulse/frequency/switch output (active/passive)
Double pulse output (active/passive)
Relay output

Inputs

Status input
4-20 mA input

Digital communication

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus
RS485, PROFINET, PROFINET over Ethernet-APL, Ethernet/IP, OPC-UA

Power supply

DC 24 V
AC 100 to 230 V
AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals

ATEX, IECEx, cCSAus, NEPSI, INMETRO, EAC, UK Ex, KC

Product safety

CE, C-tick, EAC marking

Functional safety

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

Gas**Metrological approvals and certificates**

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

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Marine approvals and certificates

LR approval, DNV approval, ABS approval, BV approval, CCS approval

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, EHEDG, cGMP

Steam**Measuring principle**

Coriolis

Product headline

Flowmeter with minimized total cost of ownership and a compact, easily accessible transmitter.

Accurate measurement of liquids and gases for a wide range of standard applications.

Marine approvals and certificates

LR approval, DNV approval, ABS approval, BV approval

Density**Measuring principle**

Coriolis

Density

Product Headline

Flowmeter with minimized total cost of ownership and a compact, easily accessible transmitter.

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).

Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology.

Process pressure up to 100 bar (1450 psi). Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access.

Density/Concentration

Measuring principle

Coriolis

Product headline

Flowmeter with minimized total cost of ownership and a compact, easily accessible transmitter.

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.

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Nominal diameter range

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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, concentration

Max. measurement error

Mass flow (liquid): ±0.15 % (standard), ±0.10 % (option)

Volume flow (liquid): ±0.15 %

Mass flow (gas): ±0.50 %

Density (liquid): ±0.0005 g/cm³

Measuring range

0 to 180 000 kg/h (0 to 6615 lb/min)

Density/Concentration**Max. process pressure**PN 100, Class 600, 63K

Medium temperature range-40 to +150 °C (-40 to +302 °F)

Ambient temperature range

Standard: -40 to +60 °C (-40 to +140 °F)

Option: -50 to +60 °C (-58 to +140 °F)

Sensor housing material1.4301 (304), corrosion resistant

Transmitter housing materialAlSi10Mg, coated; stainless steel for hygienic transmitter design

Degree of protection

Standard: IP66/67, Type 4X enclosure

IP69

Display/Operation

4-line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Remote display available"

Outputs

3 outputs:

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4-20 mA WirelessHART

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Double pulse output (active/passive)

Relay output

Inputs

Status input

4-20 mA input

Density/Concentration**Digital communication**

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus RS485, PROFINET, PROFINET over Ethernet-APL, Ethernet/IP, OPC-UA

Power supply

DC 24 V

AC 100 to 230 V

AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals

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Product safety

CE, C-tick, EAC marking

Functional safety

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Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

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