

# Proline Promass K 10 Coriolis flowmeter

Flowmeter with minimized total cost of ownership with easy-to-use operation concept



More information and current pricing:

[www.at.endress.com/8KBB](http://www.at.endress.com/8KBB)

## Benefits:

- Cost-effective general-purpose device – alternative to mechanical flowmeters
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Space-saving installation – no in-/outlet run needs
- Optimum usability – operation with mobile devices and SmartBlue app or display with touch screen
- Simple, time-saving commissioning – guided parameterization in advance and in the field
- Integrated verification – Heartbeat Technology

## Specs at a glance

- **Max. measurement error** Mass flow (liquid):  $\pm 0.5\%$  (standard),  $\pm 0.15\%$  (option) Mass flow (gas):  $\pm 1\%$
- **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:** Promass K is the cost-efficient Coriolis solution for elementary mass flow measuring tasks. It provides dependable measurement in basic applications featuring air, gas, fuel and water. With its straightforward hard- and software design, Promass K 10 simplifies every step in its life cycle from engineering to servicing at usual Endress+Hauser quality. Heartbeat Technology ensures measurement reliability and enables extension of recalibration cycles.

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## Features and specifications

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### Liquids

**Measuring principle**

Coriolis

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**Product headline**

Flowmeter with minimized total cost of ownership with easy-to-use operation concept.

Measurement of liquids and gases in utility processes and basic applications.

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**Sensor features**

Cost-effective general-purpose device – alternative to mechanical 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).

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**Transmitter features**

Optimum usability – operation with mobile devices and SmartBlue app or display with touch screen. Simple, time-saving commissioning – guided parameterization in advance and in the field. Integrated verification – Heartbeat Technology.

System integration with HART, Modbus RS485. Flexible operation with app and optional display.

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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, temperature, Density (option), volume flow, corrected volume flow

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## Liquids

**Max. measurement error**

Mass flow (liquid):  $\pm 0.5$  % (standard),  $\pm 0.15$  % (option)

Mass flow (gas):  $\pm 1$  %

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**Measuring range**

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

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**Max. process pressure**

PN 100, Class 600, 63K

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**Medium temperature range**

$-40$  to  $+150$  °C ( $-40$  to  $+302$  °F)

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**Ambient temperature range**

Standard:  $-20$  to  $+60$  °C ( $-4$  to  $+140$  °F)

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**Sensor housing material**

Stainless steel 1.4301 (304)

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**Transmitter housing material**

AlSi10Mg, coated

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**Degree of protection**

Standard: IP66/67, Type 4X enclosure

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**Display/Operation**

2.4" LCD display with touch & auto rotate; Configuration and operation via SmartBlue App (Bluetooth) possible

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**Outputs**

4-20 mA HART (active/passive), Pulse/frequency/switch output

Modbus RS485, 4-20 mA

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**Digital communication**

HART, MODBUS RS485

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## Liquids

### Power supply

DC 24 V

AC 100 to 230 V

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

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### Hazardous area approvals

ATEX

IECEX

cCSAus

EAC

NEPSI

INMETRO

JPN

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### 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)

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### Pressure approvals and certificates

CRN, PED

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### Material certificates

3.1 material

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### Hygienic approvals and certificates

EC 1935, FDA, GB4806, cGMP

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## Gas

### Measuring principle

Coriolis

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### Nominal diameter range

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

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## Gas

**Wetted materials**

Measuring tube: 1.4539 (904L)

Connection: 1.4404 (316/316L)

**Measured variables**

Mass flow, temperature, Density (option), volume flow, corrected volume flow

**Max. measurement error**Mass flow (liquid):  $\pm 0.5$  % (standard),  $\pm 0.15$  % (option)Mass flow (gas):  $\pm 1$  %**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: -20 to +60 °C (-4 to +140 °F)

**Sensor housing material**

Stainless steel 1.4301 (304)

**Transmitter housing material**

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**Degree of protection**

Standard: IP66/67, Type 4X enclosure

**Display/Operation**

2.4" LCD display with touch &amp; auto rotate; Configuration and operation via SmartBlue App (Bluetooth) possible

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Gas	<b>Outputs</b> 4-20 mA HART (active/passive), Pulse/frequency/switch output Modbus RS485, 4-20 mA
	<b>Digital communication</b> HART, MODBUS RS485
	<b>Power supply</b> DC 24 V AC 100 to 230 V AC 100 to 230 V / DC 24 V (non-hazardous area)
	<b>Hazardous area approvals</b> ATEX IECEX cCSAus EAC NEPSI INMETRO JPN
	<b>Metrological approvals and certificates</b> 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)
	<b>Pressure approvals and certificates</b> CRN, PED
	<b>Material certificates</b> 3.1 material
	<b>Hygienic approvals and certificates</b> EC 1935, FDA, GB4806, cGMP

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