# 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.de.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): ±0.5 % (standard), ±0.15 % (option) Mass flow (gas): ±1 %
- **Measuring range** 0 to 180 000 kg/h (0 to 6615 lb/min)
- **Medium temperature range** –40 to +150 °C (–40 to +302 °F)
- **Max. process pressure** PN 40, Class 300, 40K
- **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.

# Features and specifications

## Gas

**Measuring principle**
Coriolis

**Nominal diameter range**
DN 8 to 80 (⅜ to 3")

**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): ±0.5 % (standard), ±0.15 % (option)
Mass flow (gas): ±1 %

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

**Max. process pressure**
PN 40, Class 300, 40K

**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**
AlSi10Mg, coated

## Gas

**Degree of protection**
Standard: IP66/67, Type 4X enclosure

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

**Outputs**
4-20 mA HART (active/passive), Pulse/frequency/switch output
Modbus RS485, 4-20 mA

**Digital communication**
HART, MODBUS RS485

**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
EAC
NEPSI
INMETRO
JPN
Uk Ex

**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)

**Pressure approvals and certificates**
CRN, PED

## Gas

**Material certificates**
3.1 material

**Hygienic approvals and certificates**
EC 1935, FDA, GB4806, cGMP

## Liquids

**Measuring principle**
Coriolis

**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.

**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).

**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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**Wetted materials**
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Connection: 1.4404 (316/316L)

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