Medidor de vazão Proline Promass E 100
Coriolis

Medidor de vazão Coriolis de médio alcance com um transmissor ultracompacto

Mais informações e preço atual:
www.br.endress.com/8E1C

Benefícios:

- Relação custo-benefício – equipamento polivalente; uma alternativa para medidores de vazão volumétricos convencionais
- Menos pontos de medição do processo – medição multivariável (vazão, densidade, temperatura)
- Instalação compacta – dutos de entrada/saída não são necessários
- Transmissor compacto – total funcionalidade em um equipamento compacto
- Operação local mais rápida sem software ou hardware adicional – servidor de web integrado
- Verificação integrada – Heartbeat Technology

Especificações resumidas

- **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 6600 lb/min)
- **Medium temperature range** –40 to +150 °C (–40 to +302°F)
- **Max. process pressure** PN 100, Class 600, 63K
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L)

Campo de aplicação: Há muito tempo, o Promass robusto tem uma boa reputação como solução confiável para medir líquidos e gases de forma precisa em uma vasta gama de aplicações padrão. O seu transmissor ultracompacto propicia um desempenho ótimo em pequenas dimensões e permite a perfeita integração do sistema, fazendo com que o Promass E 100 seja a escolha recomendada para fabricantes de skid, fabricantes de

equipamentos e integradores de sistemas. Heartbeat Technology garante a confiabilidade de medição e a verificação da conformidade.

Características e especificações

Liquids

Measuring principle

Coriolis

Product headline

Flowmeter with minimized total cost of ownership and an ultra-compact 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). Process pressure up to 100 bar (1450 psi).

Transmitter features

Space - saving transmitter – full functionality on the smallest footprint. Time - saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Robust, ultra-compact transmitter housing. Highest degree of protection: IP69. Local display available.

Nominal diameter range

DN 8 to 80 (⅜ to 3")

Wetted materials

Measuring tube: 1.4539 (904L)
Connection: 1.4404 (316/316L)

Liquids

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 %
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Measuring range
0 to 180 000 kg/h (0 to 6600 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
Compact: AlSi10Mg, coated
Compact/ultra - compact: 1.4301 (304)

Degree of protection
Standard: IP66/67, type 4X enclosure
Option: IP69

Display/Operation
4 - line backlit display available (no local operation)
Configuration via web browser and operating tools possible

Liquids

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

Inputs
None

Digital communication
HART, Modbus RS485, EtherNet/IP, PROFIBUS DP, PROFINET

Power supply
DC 20 to 30 V

Hazardous area approvals
ATEX, IECEx, cCSAus, INMETRO, NEPSI, EAC

Product safety
CE, C-Tick, EAC marking

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)

Marine approvals and certificates
LR approval, DNV GL 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
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