Promass 80I

Daha fazla bilgi ve güncel fiyatlandırma:
www.tr.endress.com/80I

Avantajlar:

- Energy-saving – full bore design enables minimal pressure loss
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Space-saving installation – no in/outlet run needs
- Cost-effective – dedicated design for standard applications
- Safe operation – display provides easy readable process information
- Fully industry compliant – IEC/EN/NAMUR

Özelliklere genel bakış

- **Max. measurement error** Mass flow (liquid): ±0.15 % Volume flow (liquid): ±0.15 % Mass flow (gas): ±0.5 % Density (liquid): ±0.0005 g/cm³
- **Measuring range** 0 to 180 000 kg/h (0 to 6600 lb/min)
- **Medium temperature range** –50 to +150 °C (–58 to +302 °F)
- **Max. process pressure** PN 100, Class 600, 63K
- **Wetted materials** Measuring tube: Titanium grade 9 Connection: Titanium grade 2

Uygulama alanı: The straight singe-tube flow meter Promass I is designed for applications requiring low pressure loss and gentle fluid treatment. Combined with the proven Promass 80 transmitter with push buttons, Promass 80I offers a cost effective solution for applications requiring gentle fluid handling.

Özellikler ve şartlar

Liquids

Measuring principle
Coriolis

Liquids

Product headline

The straight single - tube flowmeter with a compact or remote transmitter. Measuring liquids and gases in applications requiring low pressure loss and gentle fluid treatment.

Sensor features

Energy - saving – full bore design enables minimal pressure loss. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space - saving installation – no in/outlet run needs. Straight, easy cleanable single - tube system. TMB technology.

Transmitter features

Cost - effective – dedicated design for standard applications. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2 - line backlit display with push buttons. Device in compact or remote version.

Nominal diameter range

DN 8 to 80 (⅜ to 3")

Wetted materials

Measuring tube: Titanium grade 9
Connection: Titanium grade 2

Measured variables

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

Max. measurement error

Mass flow (liquid): ±0.15 %
Volume flow (liquid): ±0.15 %
Mass flow (gas): ±0.5 %
Density (liquid): ±0.0005 g/cm³

Measuring range

0 to 180 000 kg/h (0 to 6600 lb/min)

Max. process pressure

PN 100, Class 600, 63K

Liquids

Medium temperature range
−50 to +150 °C (−58 to +302 °F)

Ambient temperature range
Standard: −20 to +60 °C (−4 to +140 °F)
Option: −40 to +60 °C (−40 to +140 °F)

Sensor housing material
1.4301/1.4307 (304L), corrosion resistant

Transmitter housing material
Powder - coated die - cast aluminium
1.4301 (304), sheet
CF3M (316L), cast

Degree of protection
IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

Display/Operation
2 - line backlit display with push buttons
Configuration via local display and operating tools possible

Outputs
3 outputs:
0 - 20 mA (active)/4 - 20 mA (active/passive)
Pulse/frequency/switch output (passive)

Inputs
Status input

Digital communication
HART
PROFIBUS PA

Power supply
DC 16 to 62 V
AC 85 to 260 V (45 to 65 Hz)
AC 20 to 55 V (45 to 65 Hz)

Liquids

Hazardous area approvals
ATEX, IECEx, FM, CSA, NEPSI

Other approvals and certificates
3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL
PED, CRN
3-A

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), NAMUR

Pressure approvals and certificates
PED, CRN

Material certificates
3.1 material

Hygienic approvals and certificates
3-A

Density

Measuring principle
Coriolis

Density

Characteristic / Application

Balanced single-tube system, "Fit-and-Forget" installation
Design:
Easy to clean, hygienic, careful handling of the medium - chemically resistant material

Ambient temperature

-20...+65°C
(-4...+140°F)

Process temperature

-50...+150°C
(-58...+302°F)

Process pressure absolute

PN 16...100
Cl 150...600
JIS 10...63K

Wetted parts

Titan

Output

4...20 mA
Pulse/Frequency
Status

Certificates / Approvals

ATEX
FM
CSA

Gas

Measuring principle

Coriolis

Gas

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Density/Concentration

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3-A

Ayrıntılı bilgi **www.tr.endress.com/80I**