

Proline Prosonic Flow 92F Ultrasonic flowmeter

Highly accurate, loop-powered flowmeter with innovative parallel path design for minimum inlet runs



Mais informações e preço atual:

www.br.endress.com/92F

Benefícios:

- Safe design for process industries – international hazardous area approvals
- No additional pressure loss – full-bore design
- Process transparency – diagnostic capability
- Easy installation and reduced installation costs – loop-powered transmitter
- Fully industry compliant – IEC/ATEX/FM/CSA/JPN/NEPSI
- Automatic recovery of data for servicing

Especificações resumidas

- **Max. measurement error** Volume flow (standard): - ± 0.5 % o.r. for 0.5 to 10 m/s (1.6 to 33 ft/s) Volume flow (option): - ± 0.3 % o.r. for 0.5 to 10 m/s (1.6 to 33 ft/s)
- **Measuring range** 0.5 to 10 m/s (1.6 to 33 ft/s)
- **Medium temperature range** -40 to +150 °C (-40 to +302 °F) -40 to +200 °C (-40 to +392 °F) optional
- **Max. process pressure** PN 40 / ASME Cl. 300 / JIS 20K
- **Wetted materials** Sensor: A351-CF3M (DN25 to 100) 1.4404/TP316/TP316L or A106 GrB (DN150 to 300) Transducer: 1.4404/316/316L Flanges : 1.4404/316/316L or A105/1.0432

Campo de aplicação: Prosonic Flow F is the inline sensor with rugged industrial design for Ultrasonic fluid measurement. Combined with the loop-powered Prosonic Flow 92 transmitter, the device offers easy system integration and accuracy at an attractive price. Prosonic Flow 92F is ideally suited for the chemical and petrochemical industries.

Características e especificações

Liquids

Measuring principle

Ultrasonic flow

Product headline

Highly accurate, loop-powered flowmeter with innovative parallel path design for minimum inlet runs.

Inline device for homogeneous conductive and non-conductive liquids in the chemical and petrochemical industry.

Sensor features

Safe design for process industries – international hazardous area approvals. No additional pressure loss – full-bore design. Process transparency – diagnostic capability.

Full compliance according to NACE MR0175 and MR010. Nominal diameter: DN 25 to 300 (1 to 12"). Medium temperature: –40 to 200 °C (–40 to 392 °F).

Transmitter features

Easy installation and reduced installation costs – loop-powered transmitter. Fully industry compliant – IEC/ATEX/FM/CSA/JPN/NEPSI. Automatic recovery of data for servicing.

Device as compact or remote version. 2-line backlit display with push buttons. HART, PROFIBUS PA, FOUNDATION Fieldbus.

Nominal diameter range

2 path version: DN80 to 300 (3 to 12")

3 path version: DN25 to 50 (1 to 2")

4 path version: DN 80 to 300 (3 to 12")

Wetted materials

Sensor:

A351-CF3M (DN25 to 100)

1.4404/TP316/TP316L or A106 GrB (DN150 to 300)

Transducer: 1.4404/316/316L

Flanges : 1.4404/316/316L or A105/1.0432

Liquids

Measured variables

Volume flow, calculated mass flow, sound velocity, flow velocity, signal strength

Max. measurement error

Volume flow (standard):

- ± 0.5 % o.r. for 0.5 to 10 m/s (1.6 to 33 ft/s)

Volume flow (option):

- ± 0.3 % o.r. for 0.5 to 10 m/s (1.6 to 33 ft/s)

Measuring range

0.5 to 10 m/s (1.6 to 33 ft/s)

Max. process pressure

PN 40 / ASME Cl. 300 / JIS 20K

Medium temperature range

-40 to +150 °C (-40 to +302 °F)

-40 to +200 °C (-40 to +392 °F) optional

Ambient temperature range

-40 to +60 °C (-40 to +140 °F) compact

-40 to +80 °C (-40 to +176 °F) remote sensor

-40 to +60 °C (-40 to +140 °F) remote transmitter

Transmitter housing material

AlSi10Mg, coated

Degree of protection

IP67, type 4X enclosure

IP68 type 6P enclosure (option for remote)

Display/Operation

2 lines backlit display with 3 push buttons

Outputs

1x 4-20 mA HART

1x Pulse/frequency/switch output (passive)

Liquids

Inputs

N/A

Digital communication

HART, Profibus PA, FOUNDATION Fieldbus

Power supply

2 wire loop powered

Hazardous area approvals

ATEX,FM, CSA, JPN

Other approvals and certificates

3.1 material (wetted parts), calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), CRN, AD2000
PED, EAC marking

Product safety

EAC marking

Metrological approvals and certificates

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

Pressure approvals and certificates

CRN, PED, AD2000

Material certificates

3.1 material (wetted parts)

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