

## Proline Prosonic Flow 92F ultrasone flowmeter

Uiterst nauwkeurige, lusgevoede flowmeter met innovatief parallel-pad-ontwerp voor minimum inlaatlengten



Meer informatie en actuele prijzen:

[www.be.endress.com/92F](http://www.be.endress.com/92F)

### Voordelen:

- Veilig ontwerp voor de procesindustrie – internationale goedkeuringen voor gevaarlijke omgevingen
- Geen extra drukverlies – uitvoering met volle doorlaat
- Procestransparantie – geschikt voor diagnose
- Eenvoudige installatie en gereduceerde installatiekosten – lusgevoede transmitter
- Voldoet aan alle industrienormen – IEC/ATEX/FM/CSA/JPN/NEPSI
- Automatisch herstel van gegevens voor onderhoud

### Overzicht specificaties

- **Max. meetfout** Volume flow (standard): -  $\pm 0.5$  % o.r. for 0.5 to 10 m/s (1.6 to 33 ft/s) Volume flow (option): -  $\pm 0.3$  % 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

**Toepassingsgebied:** De Prosonic Flow F is de inline-sensor met robuust industrieel ontwerp voor ultrasone vloeistofmetingen. In combinatie met de lusgevoede Prosonic Flow 92 transmitter biedt het instrument eenvoudige systeemintegratie en nauwkeurigheid voor een

aantrekkelijke prijs. De Prosonic Flow 92F is ideaal voor de chemische & petrochemische industrie.

## Kenmerken en specificaties

### Liquids

#### Meetprincipe

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")

## Liquids

### 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

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### Measured variables

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

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### Max. meetfout

Volume flow (standard):

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

Volume flow (option):

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

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### Measuring range

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

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### Max. process pressure

PN 40 / ASME Cl. 300 / JIS 20K

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### Medium temperature range

-40 to +150 °C (-40 to +302 °F)

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

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### 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

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### Transmitter housing material

AlSi10Mg, coated

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### Degree of protection

IP67, type 4X enclosure

IP68 type 6P enclosure (option for remote)

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## Liquids

### Display/Operation

2 lines backlit display with 3 push buttons

### Outputs

1x 4-20 mA HART

1x Pulse/frequency/switch output (passive)

### 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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