

## Proline Prosonic Flow 92F ultrasonic flowmeter

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



More information and current pricing:

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

### Benefits:

- 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

### Specs at a glance

- **Max. measurement error** 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

**Field of application:** 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.

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## Features and specifications

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### Liquids

**Measuring principle**

Ultrasonic flow

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**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.

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**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).

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**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.

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**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")

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**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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## Liquids

### Measured variables

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

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### Max. measurement error

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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### Display/Operation

2 lines backlit display with 3 push buttons

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### Outputs

1x 4-20 mA HART

1x Pulse/frequency/switch output (passive)

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## Liquids

**Inputs**

N/A

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**Digital communication**

HART, Profibus PA, FOUNDATION Fieldbus

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**Power supply**

2 wire loop powered

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**Hazardous area approvals**

ATEX,FM, CSA, JPN

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**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

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**Product safety**

EAC marking

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**Metrological approvals and certificates**

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

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**Pressure approvals and certificates**

CRN, PED, AD2000

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**Material certificates**

3.1 material (wetted parts)

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