

Proline Prosonic Flow 91W ultrasonic flowmeter

Device with automatic frequency scan for max. measuring performance and cost-effective transmitter



More information and current pricing:

www.us.endress.com/91W

Benefits:

- Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 4000)
- Long-term stable signal - maintenance-free permanent mounting from outside with coupling pads
- Process transparency – diagnostic capability
- Economical transmitter – designed for easy applications
- Fast and reliable commissioning – Quick Setup menu for installation
- Automatic recovery of data for servicing

Specs at a glance

- **Max. measurement error** Volume flow: $\pm 3\%$ o.r. for DN15 $\pm 2\%$ o.r. for DN25 to 200 $\pm 2\%$ o.r. above DN200
- **Measuring range** 0.3 to 10 m/s (1 to 33 ft/s)
- **Medium temperature range** -20 to $+80^{\circ}\text{C}$ (-4 to $+176^{\circ}\text{F}$) 0 to $+130^{\circ}\text{C}$ (32 to $+265^{\circ}\text{F}$) option
- **Max. process pressure** N/A
- **Wetted materials** Clamp on system: Sensor holder 1.4308/CF-8
Sensor housing 1.4301/304 Strapping bands 1.4301/304

Field of application: The Prosonic Flow W clamp-on sensor is specially designed for water and wastewater applications. Combined with the cost-effective Prosonic Flow 91 transmitter with push buttons, Prosonic Flow 91W is ideally suited for flow monitoring in the water industry.

Features and specifications

Liquids

Measuring principle

Ultrasonic flow

Product headline

Device with automatic frequency scan for maximum measuring performance and cost-effective transmitter.

Clamp-on flow measurement of process water, salt water, demineralized water, drinking & wastewater.

Sensor features

Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 4000/156"). Long-term stable signal – maintenance-free permanent mounting from outside with coupling pads. Process transparency – diagnostic capability.

Medium temperature: -20 to +80 °C (-4 to +176 °F). Degree of protection IP68 (Type 6P enclosure) for pipes under water. Shock and vibration resistance according to IEC 68-2-6.

Transmitter features

Economical transmitter – designed for easy applications. Fast and reliable commissioning – Quick Setup menu for installation. Automatic recovery of data for servicing.

Aluminium field transmitter housing. 2-line display with push buttons. HART.

Nominal diameter range

Single channel, 1 or 2 paths : DN15 to 2000 (1/2 to 80")

Wetted materials

Clamp on system:

Sensor holder 1.4308/CF-8

Sensor housing 1.4301/304

Strapping bands 1.4301/304

Measured variables

Volume flow, sound velocity, flow velocity, signal strength, totalizer

Liquids**Max. measurement error**

Volume flow:

±3% o.r. for DN15

±2% o.r. for DN25 to 200

±2% o.r. above DN200

Measuring range

0.3 to 10 m/s (1 to 33 ft/s)

Max. process pressure

N/A

Medium temperature range

-20 to +80°C (-4 to +176 °F)

0 to +130°C (32 to +265 °F) option

Ambient temperature range

-20 to +60 °C (-4 to +140 °F)

Sensor housing material

N/A

Transmitter housing material

AlSi10Mg, coated

Degree of protection

IP67, type 4X for transmitter

IP67 type 4X for sensors

IP68 type 6P for sensors (option). IP67 NEMA 4X

Display/Operation

2 lines backlit display with 3 push button

Outputs

1x 4-20 mA HART (active)

1x Pulse/frequency/switch output (passive)

Inputs

N/A

Liquids

Digital communication

HART

Power supply

AC 85 to 250 V

20 to 28 V

DC 11 to 40 V

Hazardous area approvals

Non hazardous area

FM, CSA

Other approvals and certificates

Flowmeter verification for DN15, 25, 40, 50 & 100 only

EAC marking

Product safety

CE, C-Tick, EAC marking

Metrological approvals and certificates

Flowmeter verification for DN15, 25, 40, 50 & 100 only

More information www.us.endress.com/91W