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.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: ±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)
- **Medium temperature range** -20 to +80℃ (-4 to +176 ℉) 0 to +130℃ (32 to +265 ℉) 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

Endress+Hauser

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 ℃ (-4 to +176 ℉). 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℃ (-4 to +176 ℉)

0 to +130℃ (32 to +265 ℉) option

Ambient temperature range

-20 to +60 ℃ (-4 to +140 ℉)

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.endress.com/91W**

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