

## Proline Prosonic Flow 91W ultrasonic flowmeter

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



### Benefits:

- Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 2000)
- 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

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### 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.

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### Sensor features

Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 2000/80"). 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.

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### 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.

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### Nominal diameter range

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

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### Wetted materials

Clamp on system:

Sensor holder 1.4308/CF-8

Sensor housing 1.4301/304

Strapping bands 1.4301/304

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### Measured variables

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

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## Liquids

**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

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**Measuring range**0.3 to 10 m/s (1 to 33 ft/s)

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**Max. process pressure**N/A

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**Medium temperature range**

-20 to +80°C (-4 to +176 °F)

0 to +130°C (32 to +265 °F) option

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**Ambient temperature range**-20 to +60 °C (-4 to +140 °F)

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**Sensor housing material**N/A

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**Transmitter housing material**AlSi10Mg, coated

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**Degree of protection**

IP67, type 4X for transmitter

IP67 type 4X for sensors

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

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**Display/Operation**2 lines backlit display with 3 push button

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**Outputs**

1x 4-20 mA HART (active)

1x Pulse/frequency/switch output (passive)

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**Inputs**N/A

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## Liquids

### Digital communication

HART

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### Power supply

AC 85 to 250 V

20 to 28 V

DC 11 to 40 V

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### Hazardous area approvals

Non hazardous area

FM, CSA

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### Other approvals and certificates

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

EAC marking

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### Product safety

CE, C-Tick, EAC marking

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### Metrological approvals and certificates

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

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