Proline Prosonic Flow 93W ultrasonic flowmeter

Device with automatic frequency scan for max. measuring performance with a wide range of outputs

More information and current pricing:

www.endress.com/93W

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
- Highest performance – extended functionality and diagnostics
- Flexible data transfer options – numerous communication types
- 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** Clamp-on: −20 to +80 °C (−4 to +176 °F) Insertion version: −40 to +80 °C
- **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 was specially designed for water and wastewater applications. Combined with the Prosonic Flow 93 transmitter with touch control, four-line display and extended functionality, Prosonic Flow 93W offers high accuracy in standard applications in the water industry.

Features and specifications

Endress+Hauser

Liquids

Measuring principle

Ultrasonic flow

Product headline

Device with automatic frequency scan for max. measuring performance with a wide range of outputs.

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

Highest performance – extended functionality and diagnostics. Flexible data transfer options – numerous communication types. Automatic recovery of data for servicing.

Aluminium transmitter housing. 4‑line backlit display with touch control. HART, PROFIBUS PA/DP, FOUNDATION Fieldbus.

Nominal diameter range

Single channel, 1 or 2 paths : DN15 to 4000 (1/2 to 160")
Dual channel, 1 or 2 paths : DN15 to 4000 (1/2 to 160")

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 channel 1&2, average volume flow, volume flow difference, sound velocity, flow velocity, 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

Clamp-on: −20 to +80 ℃ (−4 to +176 ℉)

Insertion version: −40 to +80 ℃

Ambient temperature range

-20 to +60 ℃ (-4 to +140 ℉)

Sensor housing material

N/A

Transmitter housing material

Wall-mounted housing: powder-coated die-cast aluminum

Degree of protection

IP67, type 4X for transmitter, IP68 (option)

IP67 type 4X for sensors

IP68 type 6P for sensors (option). Transmitter: IP67, type 4X enclosure

Display/Operation

4 lines backlit display with three optical keys

Outputs

1x 4-20 mA HART

1x Pulse/frequency/switch output (passive)

Inputs

N/A

Liquids

Digital communication

HART, PROFIBUS PA, PROFIBUS DP, FOUNDATION Fieldbus

Power supply

AC 85 to 260 V

AC 20 to 55 V

DC 16 to 62 V

Hazardous area approvals

ATEX, FM, CSA

Other approvals and certificates

Flowmeter verification for DN15, 25, 40, 50, 100, 250, 400 only

Marine certificate

EAC marking

Product safety

CE, C-Tick, EAC marking

Metrological approvals and certificates

Flowmeter verification for DN15, 25, 40, 50, 100, 250, 400 only

Marine approvals and certificates

Marine certificate

More information **www.endress.com/93W**