



Endress+Hauser Proline Prosonic Flow 91W

Ultrasonic non-contact flow measurement for water/wastewater applications

Endress+Hauser Ultrasonic Clamp-on Flowmeters have gained wide acceptance due to their flexible application on a wide range of clean liquids.

In pipes with large diameters, restricted access ability, or requiring additional flow information, Prosonic Flow is an ideal choice to other flowmeter technologies - especially when robust design and safety are important. The cost-effective Prosonic Flow 91 Transmitter is now available with clamp-on sensors to include small diameter pipes and is economically priced with models starting at \$5765.00.

Like the proven Prosonic Flow 90/93W metering systems, Prosonic Flow 91W has a menu driven Quick setup for sensor installation. This ensures that the ultra-

sonic sensors are exactly positioned on the pipe, so that flow velocity along the metering path is registered accurately (<0.5% o.r. under reference conditions). The installation related measurement uncertainty is therefore typically $\pm 2\%$.

Easy commissioning, straightforward operation, industrial design and special diagnostic functions all contribute toward making Prosonic Flow 91W a user friendly, low maintenance, flexible and easily installed flow metering system. Check it out!

Typical Features

- Energy saving flow measurement without process interruption or pressure loss
- Robust, reliable and field-proven measuring technology for safe operation
- Flexible - suitable for retrofitting on existing pipes at any time
- Equally applicable for small and large pipe diameters (DN 50 to 4000)
- Unique installation concept for precise clamp-on sensor positioning
- Proven Proline transmitter concept (standardized operation & electronics)
- Smart tooling concept for efficient planning, commissioning and maintenance

For more Prosonic Flow 91W information:

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Contact: Chris Gailer

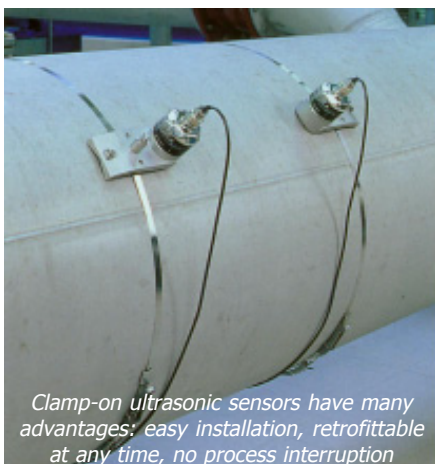
Technical Data

Prosonic Flow 91 (transmitter)

- Display (user interface): 2-line, backlit, pushbuttons control
- Power supply: 85-260Vac, 20-55Vac, 16-62Vdc
- Ambient temperature: -20 to +60°C
- IP67 protection rating
- Galvanic isolation: Inputs, outputs and power supply are isolated from each other
- Outputs: Current output (HART, 0/4-20 mA), pulse output and status output
- Communication: HART
- Measured error: ± 1 to 2% o.r. typically
Zero point: ± 7.5 mm/s
- Ex approvals: FM, CSA (Option: C1 1 Div. 2)

Prosonic Flow W (sensor)

- Nominal diameters DN 50 to 4000
- Max. flow rate depends on nominal dia. (max. flow velocity: 15m/s)
- Process pressure is defined by the existing pipe
- Process temperature -40 to +80°C (option 0 to +130°C)
- IP67 protection rating (IP68 option)
- No pressure loss



Clamp-on ultrasonic sensors have many advantages: easy installation, retrofitable at any time, no process interruption