Proline Prosonic Flow W 400 ultrasonic flowmeter

Clamp-on flowmeter for the water and wastewater industry and for utilities: flexible, easy to install and safe

More information and current pricing:
www.ch.endress.com/9W4B

Benefits:

- Short inlet run thanks to FlowDC
- Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 4000/160")
- Long-term stable signal – maintenance-free permanent mounting from outside with coupling pads
- Reliable measurement on various pipe materials – sensor for GRP and plastic pipes available
- Safe operation – no need to open the device due to display with touch control, background lighting
- Full remote access – web server
- Integrated diagnostics, verification and monitoring – Heartbeat Technology

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 to 15 m/s (0 to 50 ft/s)
- **Medium temperature range** –40 to +130 °C (–40 to +266 °F)
- **Max. process pressure** N/A

Field of application: Prosonic Flow W 400 is the meter of choice for safe, cost-efficient and low-maintenance measurement of conductive and non-conductive liquids. The clamp-on mounting system and integrated web server allow for easy installation and operation. Thanks to the FlowDC option, the specified accuracy can be maintained despite disturbed flow profiles. Heartbeat Technology provides continuous

transparency in your process with its diagnostic, verification and monitoring functions.

Features and specifications

Liquids

Measuring principle

Ultrasonic flow

Product headline

Clamp-on meter with Heartbeat Technology and web server for the water and wastewater industry.
Short inlet run thanks to FlowDC.
Bidirectional measurement for water and wastewater as well as process water and hydropower plants.

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. Reliable measurement on various pipe materials – sensor for GRP and plastic pipes available.
Mounting without process interruption. Wide nominal diameter range: DN 15 to 4000 (½ to 160"). Medium temperature up to +130 °C (+266 °F).

Transmitter features

Safe operation – no need to open the device due to display with touch control, background lighting. Full remote access – web server. Integrated diagnostics, verification and monitoring – Heartbeat Technology.
Transmitter housing made of durable polycarbonate or aluminium.
Remote version for wall mounting. Integrated data logger: measured values monitoring.

Nominal diameter range

DN15 to 4000 (1/2 to 160")

Liquids

Sensor materials

Clamp on system:
Sensor holder 1.4301 (304), 1.4404 (316L)
Sensor housing 1.4301 (304), 1.4404 (316L)
Strapping bands 1.4301 (304), 1.4404 (316L)

Measured variables

Volume flow, Flow velocity, Sound velocity

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 to 15 m/s (0 to 50 ft/s)

Max. process pressure

N/A

Medium temperature range

–40 to +130 °C (–40 to +266 °F)

Ambient temperature range

Sensor DN 15 to 65: -40 to 130°C
Sensor DN 50 to 4000: -40 to 130°C

Sensor housing material

N/A

Transmitter housing material

Wall-mounted housing
Polycarbonat; AlSi10Mg, coated

Degree of protection

Transmitter: IP66/67, Type 4X enclosure
Sensor: IP66/67, Type 4X enclosure, IP68, Type 6P enclosure (optional)

Liquids

Display/Operation
4-line backlit display with touch control (operation from outside)
Configuration via local display, web browser and operating tools possible

Outputs
3 ouputs:
4-20 mA/4-20 mA HART (active)
Pulse/frequency/switch output (passive)
Pulse/frequency/switch output (passive)

Inputs
Status input

Digital communication
HART

Power supply
AC 100 to 240 V / AC/DC 24 V

Approvals
cCSAus, EAC

Other approvals and certificates
Other approvals and certificates

Product safety
Product safety

Metrological approvals and certificates
Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Marine approvals and certificates
Marine approvals and certificates

More information **www.ch.endress.com/9W4B**