

Prosonic Flow E Heat ultrasonic flowmeter

Industrial, certified heat flow sensor for improved energy consumption measurement



More information and current pricing:

www.ch.endress.com/9EHB

Benefits:

- Full compliance with custody transfer regulations
- Long-term stability – reliable sensor with robust industrial design
- Energy and cost savings – optimized sensor for fully insulated pipes
- Dependable flow measurement – high turndown
- Effortless, safe operation – no commissioning needed, no unauthorized device access due to locked pulse output
- Simple process indication – direct reading of status information via color LEDs
- Increased reliability – comprehensive diagnostics

Specs at a glance

- **Max. measurement error** MID 004 accuracy class II (2%)
- **Measuring range** 0.025 to 5 m/s (0.02 to 16.4 ft/s) 0 to 6360 dm³/min (0 to 1680 gal/min)
- **Medium temperature range** 0 to 150° (17.8 to 302 °F)
- **Max. process pressure** PN 25/ ASME Cl. 150
- **Wetted materials** Measuring tube: 1.4301 (F304) Process Connection: 1.4571; 1.4404 (F316L); 1.0038 (S235JR); 1,4306 (F304L); 1.4307 (F304L); A105

Field of application: Prosonic Flow E Heat is the perfect heat flow sensor for enhanced energy management throughout all industries. It offers recognized custody transfer approvals for heating and cooling applications and is optimized for flexible industrial use.

Features and specifications

Liquids

Measuring principle

Ultrasonic flow

Product headline

Industrial, certified heat flow sensor for improved energy consumption measurement.

Full compliance with custody transfer regulations.

Best choice for energy management of water (e.g. heating and cooling) across all industries.

Sensor features

Long-term stability – reliable sensor with robust industrial design. Energy and cost savings – optimized sensor for fully insulated pipes. Dependable flow measurement – high turndown.

Accuracy Class 2 according to international approvals such as MI-004, EN 1434, OIML R75. Entire sensor housing made of stainless steel. Process temperatures up to 150 °C (302 °F).

Transmitter features

Effortless, safe operation – no commissioning needed, no unauthorized device access due to locked pulse output. Simple process indication – direct reading of status information via color LEDs. Increased reliability – comprehensive diagnostics.

Certified pulse output. Cost-efficient, application-optimized transmitter.

Nominal diameter range

DN 50 to 150 (2"to 6")

Wetted materials

Measuring tube: 1.4301 (F304)

Process Connection: 1.4571; 1.4404 (F316L); 1.0038 (S235JR); 1,4306 (F304L); 1.4307 (F304L); A105

Measured variables

Flow velocity, sound velocity

Max. measurement error

MID 004 accuracy class II (2%)

Liquids

Measuring range

0.025 to 5 m/s (0.02 to 16.4 ft/s)
0 to 6360 dm³/min (0 to 1680 gal/min)

Max. process pressure

PN 25/ ASME Cl. 150

Medium temperature range

0 to 150° (17.8 to 302 °F)

Ambient temperature range

-20 to 60 °C (-4 to 140 °F)

Sensor housing material

Stainless steel

Transmitter housing material

Compact: AlSi10Mg, coated

Degree of protection

Standard: IP66/67, Type 4X enclosure
With opened housing: IP20, Type 1 enclosure

Display/Operation

direct reading of status information via color LEDs

Outputs

Pulse/Frequency

Inputs

None

Digital communication

None

Power supply

DC 19.2 to 28.8 V

Liquids

Hazardous area approvals

None

Product safety

CE, C-Tick, EAC marking

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)

MI-004 Thermal Energy

OIML R75 Class 2

Pressure approvals and certificates

PED

Material certificates

3.1 material

More information www.ch.endress.com/9EHB