Prosonic Flow E Heat ultrasonic flowmeter

Industrial, certified heat flow sensor for improved energy consumption measurement

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**
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.endress.com/9EHB](http://www.endress.com/9EHB)