

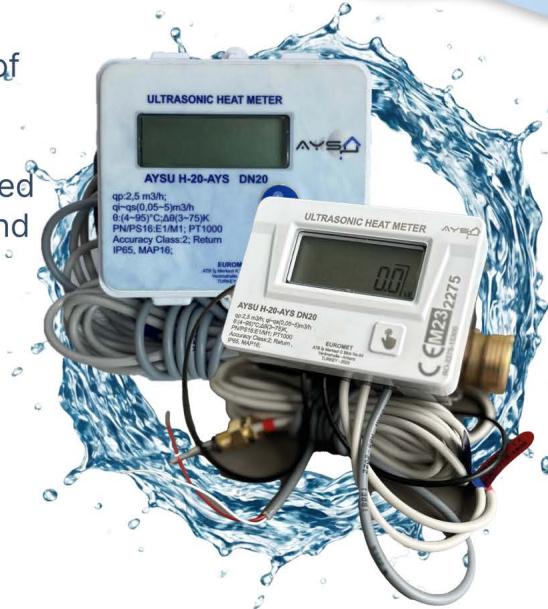
Ultrasonic Heat Meters

Precision, Durability, and Smart Metering Technology

The AYSU H-xx-AYS series represents a homogenous family of complete ultrasonic heat meters designed for heating applications. Utilizing advanced ultrasonic transit-time technology, these meters measure the thermal energy in closed circuits with high precision and stability, free from the wear and tear associated with mechanical parts.

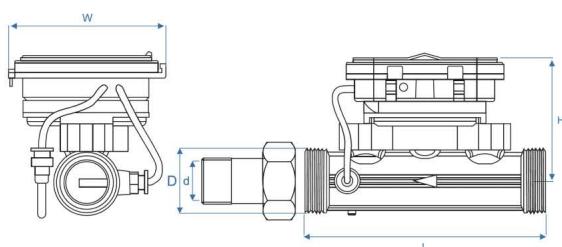
Key Features:

- Ultrasonic Technology: Operates on the "time-of-flight" principle with no moving mechanical parts, ensuring long-term accuracy and minimal maintenance.
- MID Certified: Fully compliant with Directive 2004/22/EC (MID) and OIML R75 standards, ensuring legal metrology reliability.
- Integrated M-Bus: All meters come equipped with a wired M-Bus interface (EN 13757) for remote reading and integration into Building Management Systems (BMS).
- High Durability: Features a robust brass body for the flow sensor and an IP65 protection rating.
- Data Logging: Internal memory stores historical data for the last 24 months (total energy and volume).
- Long Battery Life: Powered by a non-replaceable 3.6V Lithium battery with an expected lifetime of more than 6 years (up to 10 years).



Data Sheet

| | H-15-AYS | H-20-AYS | H-25-AYS | H-32-AYS | H-40-AYS |
|--------------------------------|-------------|-------------|-------------------------------|-------------|-------------|
| Diameter - mm | DN15 | DN20 | DN25 | DN32 | DN40 |
| q _s | 3,0 | 5,0 | 7,0 | 12,0 | 20 |
| q _p | 1,5 | 2,5 | 3,5 | 6,0 | 10 |
| q _i | 0,03 | 0,05 | 0,07 | 0,12 | 0,2 |
| q _p /q _i | 50 | 50 | 50 | 50 | 50 |
| Maximum thermal power kW | 261 | 435 | 610 | 1046 | 1743 |
| Accuracy Class | | | 2 | | |
| Temperature range | | | (4...95)°C | | |
| Temperature difference range | | | (3...150) K | | |
| Horizontal length mm | 110 | 130 | 160 | 180 | 200 |
| Temperature sensor | | | Pt1000 | | |
| Pressure Loss | | | <25kPa/qp | | |
| Orientation | | | H (Horizontal) / V (Vertical) | | |

Dimensions


| Size | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 |
|------|-------------------------------|-------------------------------|----------------------------------|----------------------------------|--------------------------------|
| L | 110 | 130 | 160 | 180 | 200 |
| W | 90 | 90 | 90 | 90 | 90 |
| D | G3/4B | G1B | G1 ¹ / ₄ B | G1 ¹ / ₂ B | G2B |
| d | R ¹ / ₂ | R ³ / ₄ | R1 | R1 ¹ / ₄ | R1 ¹ / ₂ |
| H | 85 | 95 | 100 | 106 | 116 |