

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

Diameter - mm

H-15-AYS

H-20-AYS

H-25-AYS

H-32-AYS

H-40-AYS

DN15

DN20

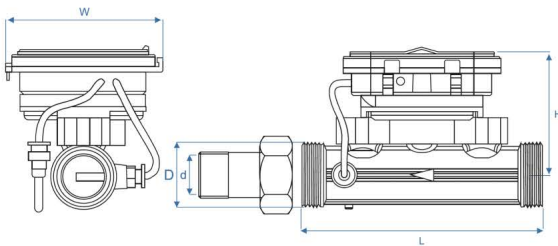
DN25

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/q _p				
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