

Smart Ultrasonic Thermal Energy Meter



The LYKH series ultrasonic thermal energy meter uses state-of-the-art technology to ensure the accurate measurement of energy usage. The meter has no moving parts, and it uses an innovative time differential measuring principle. With dual register capabilities, the meter can record both heating and cooling consumption in hydronic systems with a seasonal changeover, as well as in traditional 4-pipe systems.

Features

- Highly precise and can measure even the lowest flow rates accurately
- Immune to electrical conductivity
- Resistant to hydraulic shock
- Insensitive to magnetic interference
- Low pressure loss, filter and non-return valve typically not necessary
- Environmentally friendly, lightweight and compact
- Refined, future-proof design

Benefits

- No moving parts for continuous, stable performance
- Low power consumption
- Long battery life
- Easy to install
- IP65 rated
- Flexible communication options

Specifications

Diameter	DN15	DN20	DN25	DN32	DN40
Minimum Flow Rate, Q_i (m ³ /h)	0.03	0.05	0.07	0.12	0.2
Nominal Flow Rate, Q_p (m ³ /h)	1.5	2.5	3.5	6.0	10.0
Maximum Flow Rate, Q_s (m ³ /h)	3.0	5.0	7.2	12.0	20
Length (mm)	110	130	160	180	200
Accuracy	Class 2				
Pressure loss at Q_p	<25 kPa				
Temperature Sensors	PT1000 RTD				
Temperature range	3°C to 95°C				
Temperature Difference Range	3K to 65K				
Ambient Temperature Limits	5°C to 55°C				
Storage Temperature Limits	-20°C to 60°C				
Installation Direction	Horizontal and Vertical				
Battery	3.6 V DC 6-year, 11-year, 15-year battery life				
Static consumption	<20 μ A				
Data Storage	18 months historical heating and cooling data				
Communication	Mbus, RS485, Pulse				
Standard Compliance	CAN/CSA C900, EN1434, OIML R75				
Protection Class	IP65				
Environmental Class	A				
Electromagnetic Class	E1				
Mechanical Class	M1				