



SMART ULTRASONIC THERMAL ENERGY METER

The LYKH series ultrasonic thermal energy meter features a cutting-edge design, with high-quality sensors and instruments to ensure the accurate measurement of heating and cooling energy consumption. The meter has no moving parts, and it uses an innovative time differential measuring principle.

The ultrasonic flow sensor offers enhanced precision over typical mechanical meters, ensuring that even the lowest flow rates are accounted for accurately. The meter was designed for ease of installation and use enabling a long, maintenance-free service life.

FEATURES



Measurement Canada Accuracy
Class 2 approved



Ideal for both residential metering,
and high-rise submetering
applications



Easy to install, modern, future-proof
design



Immune to electrical conductivity
effects of measured fluids



Built-in alerting system allows for
prompt notification of meter issues
and other system problems



Resistant to hydraulic shock,
insensitive to magnetic interference



Low pressure loss, filter and
non-return valve typically
not necessary



Long battery life (up to 15 years)




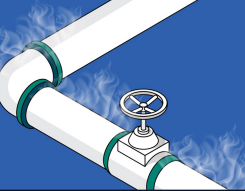








Environmentally friendly, lightweight
and compact

ALERTING SYSTEM

The Smart Alerting System, built directly into the meter, will update the status of the meter and send a notification in the event that an issue is detected.

This enables problems to be fixed before substantial damage is caused.

Alert	Benefits	Alert	Benefits
 Low Flow Leak	Notification of constant low flow water consumption.	 Reverse Flow	Notification of issues with installation or building water supply.
 High Flow Leak	Notification of constant high flow water consumption.	 High Temperature	Notification of excessive water temperature.
 Burst	Notification of burst pipe in residence.	 Memory Error	Notification of meter memory problems.
 Frozen Pipe	Notification of freezing temperatures in the water supply.	 Sensor Error	Notification of meter sensor problems.
 Empty Pipe	Notification of water supply issues or pipe blockage.	 Low Battery	Notification of low battery level.

SPECIFICATIONS

Diameter	DN15	DN20	DN25	DN32	DN40
Minimum Flow Rate, Q_l (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	20.0
Length (mm)	110	130	160	180	200
Accuracy	Class 2 (EN1434)				
Pressure loss at Q_p	$\Delta P < 25$ kPa				
Max. Operating Pressure	1.6 MPa				
Water Temperature Limits	Cold: 3°C, Hot: 95°C				
Ambient Temperature Limits	5°C to 55°C				
Installation Direction	Horizontal and Vertical				
Battery	3.6 V DC, 6-year, 11-year, 15-year battery life				
Data Storage	24 months historical data				
Communication	Lynked RF, LoRaWAN, M-Bus, NB-IoT, RS-485, Pulse				
Standard Compliance	CAN/CSA C900, EN1434				
Protection Class	IP65				
Environmental Class	A				
Electromagnetic Class	E1				
Mechanical Class	M1				

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