



SMART COMPOSITE ULTRASONIC WATER METER

The composite ultrasonic water meter is the latest addition to the LYKW series.

It features a durable, environmentally-friendly, compact construction that is ideal for any installation scenario. The meter has no moving parts, and it uses an innovative time-differential measuring principle.

The ultrasonic flow sensor offers enhanced precision, ensuring that even the lowest flow rates are accounted for accurately. The meter is compliant with NSF/ANSI/CAN 61 and AWWA C715 standards.

FEATURES



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



Highly precise and can measure even the lowest flow rates accurately



Easy to install, modern, future-proof design



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



Immune to electrical conductivity effects of measured fluids



Resistant to hydraulic shock, insensitive to magnetic interference



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



Long battery life (up to 16 years)




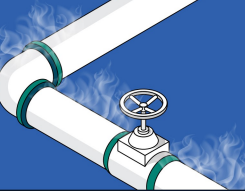








Environmentally friendly, lightweight and compact

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 |
|--|--|-------|
| Minimum Flow Rate, Q_l (m ³ /h) | 0.003125 | 0.005 |
| Nominal Flow Rate, Q_p (m ³ /h) | 2.5 | 4.0 |
| Maximum Flow Rate, Q_s (m ³ /h) | 3.125 | 5.0 |
| Length (mm) | 110 | 130 |
| Width (mm) | 78 | 78 |
| Height (mm) | 91 | 95 |
| Accuracy | Class 2 | |
| Turndown Ratio (Q_p/Q_l) | R160, R250, R400, R500, R800 | |
| Pressure loss at Q_p | $\Delta P < 63$ kPa | |
| Max. Operating Pressure | 1.6 MPa | |
| Water Temperature Limits | Cold: 30°C, Hot: 90°C | |
| 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, 10-year, 16-year battery life | |
| Data Storage | 160 Historical Reads | |
| Communication | Lynked RF, LoRaWAN, M-Bus, NB-IoT, RS-485, Pulse | |
| Standard Compliance | NSF/ANSI/CAN 61, AWWA C715 | |
| Protection Class | IP68 | |
| Environmental Class | B | |
| Electromagnetic Class | E1 | |
| Mechanical Class | M1 | |

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LBYY24001-V07