



SMART ENERGY. CONNECTED FUTURE.

BULK ULTRASONIC WATER METER

High Accuracy. Stable Performance. Built to Last.



HIGH ACCURACY
Class 2
Reliable Measurement



WIDE DYNAMIC RANGE
Q3/Q1 (R400)
Excellent Flow Performance



IP68 WATERPROOF
Fully Sealed Design
For Harsh Environments



HIGH RESOLUTION
Accumulated Flow Volume Resolution
0.01 m³ (Daily)
0.01 L (Calibration)

DIAMETER RANGE



DN50 – DN250



DN100
2024-11-20
19-112010001

0.00 m³
1.33 m³

DN100
Q3/Q1 (R400)
Acc. Resolution: 0.01 m³ (Daily)
0.01 L (Calibration)
SN: 24112010001

DN100



High Accuracy
Class 2



Wide Dynamic Range
Q3/Q1 (R400)



High Resolution
0.01 m³ (Daily)
0.01 L (Calibration)



IP68 Waterproof
Built to Last



Easy Installation
Low Maintenance

Bulk Ultrasonic Water Meter

DN150–DN250 product family | Four-channel measurement platform

A robust bulk ultrasonic meter platform for distribution networks and high-flow applications. Four-channel measurement improves stability and enables continued operation if one acoustic path is obstructed or unavailable.

DN150–DN250 Bulk water metering family	Class 2 Reliable utility measurement
R400 Wide Q3/Q1 dynamic range	IP68 Fully sealed field design

Key Features & Capabilities

- Four-channel ultrasonic measurement with redundant acoustic paths
- Stainless-steel flow section for stability and durability
- Self-diagnostics for sensors, over-range and low battery
- Intelligent data error correction for stable measurement
- RS485 integration with remote meter-reading systems
- Battery-powered default configuration with optional external supply

Technical Specifications

Parameter	Value
Diameter range	DN150–DN250 product family
Typical reference model	DN150
Accuracy class	Class 2
Range Q3/Q1	R400
Typical DN150 Q3	400 m³/h
Accumulated volume resolution	0.01 m³ daily; 0.01 L calibration
Instantaneous flow resolution	0.01 m³/h
Waterproof class	IP68
Pressure class	MAP16
Pressure loss class	Δp40
Temperature class	T50
Flow sensitivity	U5 / D3
Installation	Horizontal or vertical
Display	9-digit wide-temperature LCD
Communication	RS485

Parameter	Value
Power	Built-in battery; optional DC 7.5–24 V for RS485

The supplied technical manual contains detailed values for the DN150 reference model. DN200 and DN250 parameters require final configuration confirmation.

Application & Installation Notes

- Verify full-pipe conditions and eliminate trapped air before commissioning.
- Provide appropriate upstream and downstream straight pipe sections.
- Confirm flange dimensions, bolts and Q3 for the selected DN size.
- Protect communication and power wiring from moisture and mechanical damage.
- DN150 dimensions in the reference manual are 300 mm length and 8-M20 flange bolts.

Project Configuration

Communication interfaces, pipe sizes, flow ranges, power options and project-specific functions are configurable by product variant. Please confirm the final specification with Lanri Technology before ordering.

Contact

sales@lanri-tech.com

www.lanri-tech.com