



SMART ENERGY. CONNECTED FUTURE.

ULTRASONIC WATER METER

High Accuracy. Smart Reading. Reliable Performance.



HIGH ACCURACY
High range ratio
(maximum 800:1)



WIDE DYNAMIC RANGE
Q3/Q1: 125 / 160 / 200 /
250 / 400 / 500



IP68 PROTECTION
Fully sealed design for
harsh environments



WIRELESS COMMUNICATION
Support LoRa, NB-IoT
and more



DN15



DN20



DN25



DN32



DN40



DN50

PIPE SIZE RANGE: DN15 – DN50



68759080224560
Production Date: 2023-04
Battery Life: 2033-04
DN20
Q3 2.5m³/h
R250
MADE IN CHINA
T50 IP68
AP03
NB-IoT



HIGH ACCURACY
Precise Measurement



WIDE DYNAMIC RANGE
Flexible & Reliable



IP68 PROTECTION
Built to Last



WIRELESS CONNECTIVITY
LoRa / NB-IoT



EASY INSTALLATION
Compact & Durable

Residential Ultrasonic Water Meter

DN15–DN50 | High-range-ratio ultrasonic measurement

A compact ultrasonic water meter for residential billing and connected utility operations. Time-difference measurement, bidirectional flow measurement and flexible communication options provide accurate, low-maintenance service in demanding installations.

DN15–DN50 Six residential pipe sizes	IP68 protection Fully sealed for harsh environments
Wide dynamic range Q3/Q1: R125, R160, R200, R250, R400 or R500	Connected reading LoRa, NB-IoT and wired interfaces by configuration

Key Features & Capabilities

- Ultrasonic time-difference measurement with no mechanical moving parts
- Bidirectional forward and reverse flow measurement
- Self-diagnostics for sensor, over-range and low-battery conditions
- Optional leak, burst and scaling alarms
- Local optical reading and optional remote communication
- Built-in lithium battery with low-power operation

Technical Specifications

Parameter	Value
Diameter range	DN15, DN20, DN25, DN32, DN40, DN50
Accuracy class	Class 2
Dynamic range Q3/Q1	R125 / R160 / R200 / R250 / R400 / R500
Maximum range ratio	Up to 800:1
Permanent flow Q3	2.5 to 25 m ³ /h, depending on diameter
Waterproof class	IP68
Pressure class	MAP16
Pressure loss class	Δp25
Temperature class	T30 / T50 / T70 / T90
Flow sensitivity	U5 / D3
Installation	Horizontal or vertical
Battery life	Up to 10 years, configuration dependent
Display	9-digit LCD
Communication	Optical, M-BUS / RS485, LoRa or NB-IoT by option

Values vary by diameter, selected range ratio and communication configuration.

Application & Installation Notes

- Keep the measuring tube completely filled and avoid trapped air bubbles.
- Install away from pumps, bends and strongly pulsating flow.
- Recommended straight lengths are at least 5D upstream and 3D downstream.
- For vertical installation, use upward flow.
- Clean the pipe thoroughly before installation and install a suitable upstream filter.

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

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