

Smart Ultrasonic Meter - LoRawan

WMXX-L-U | WMXX-UNB

Description

The WMXX series ultrasonic water meter is precision-engineered for high accuracy and efficiency in water flow measurement. In addition, it comes with a built in valve to turn on and off the water flow. Utilizing ultrasonic technology, this meter measure flow from four distinct points, ensuring enhanced accuracy and sensitivity even at extremely low flow rates. Available in 1/2" and 3/4" NTP sizes, the WMXX series is designed for versatility with both horizontal and vertical installation. This meter is equipped with advanced features such as remote valve control for on/off operations and a self valve check inspection to mitigate the risks of valve locking or failure due to prolonged inactivity all controlled remotely.

Constructed with a durable nylon casing, the WMXX meter support a high range ratio of 500:1 sensing capabilities, facilitating accurate measurement across diverse flow conditions. This series is built to withstand environmental challenges, indicated by a Class O environmental rating and T30 temperature class. It ensures reliable long-term performance with a battery life of 5-7 years and low power consumption, supported by LoRaWAN communication technology for efficient data transmission. The meters also include critical self-check features to monitor battery and sensor functionality, maintaining consistent operation and ease of maintenance in residential and commercial applications. CE compliant. This meter has been tested and complies with NSF/ANSI/CAN61 - 2022.*

Features

- Measures ultrasonically from four distinct points for enhanced accuracy.
- Capable of detecting extremely low flow rates.
- Engineered for low power consumption with a battery life of 5-7 years.
- Supports both horizontal and vertical installation options.
- Includes a self-check feature to monitor battery levels and sensor functionality.
- Enables remote valve control for on/off operations.
- Features a self valve check inspection to prevent locking or failure from prolonged inactivity.
- Designed to work with SmartH2O and Connect IoT systems.

Models

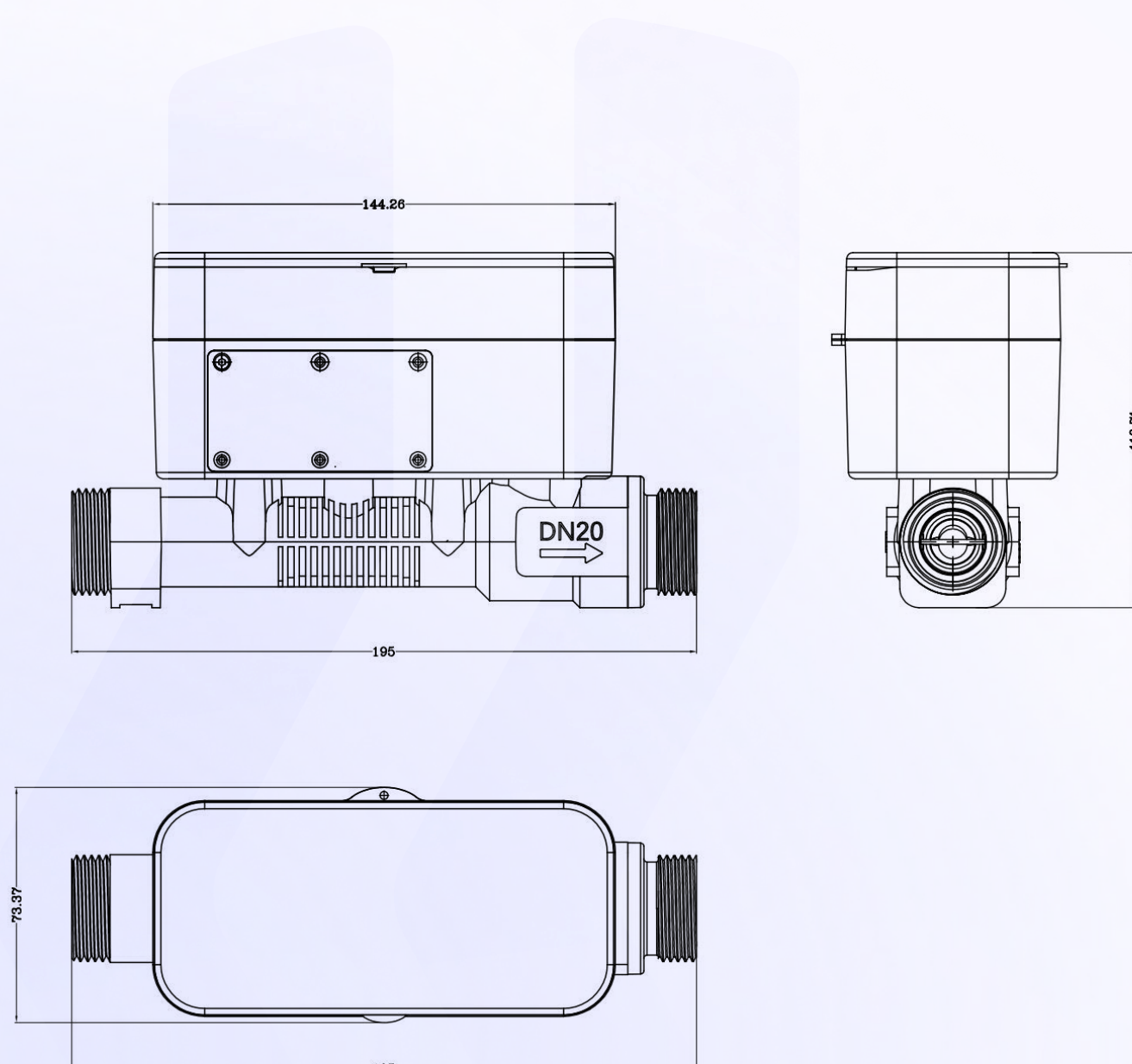
WMXX-L-U	1/2" NTP
WMXX-L-U	3/4" NTP
WMXX-UNB	1/2" NTP
WMXX-UNB	3/4" NTP

Body

Range Ratio (Q3/Q1)	400
Q2/Q1	1.6
Pressure Level	MAP16
Pressure Loss Level	$\Delta p40$
Material of case	Nylon
Flow Profile Sensitivity	U5/D3
Environmental Class	Class O
Electromagnetic Environmental Conditions	E1
Battery Life	5-7 Years (Replaceable)
Temperature Class	T30
Protection Class	Maximum IP67
Installation Method	Horizontal or Vertical

Electronics

Communication Protocol	LoRaWAN
Working Voltage	2.7~3.6V
Working Frequency	AU915
RF Modulation	LoRaWAN
Transmitting Power	17-20dBm
Receiving Sensitivity	-136 \pm 1dBm
Upload interval	Every 1 hour (configurable)
Quiescent Current	4 μ A
Transmitting Current	<108mA
Receiving Current	<14mA



* Compliance Performance Test completed by Intertek USA. NSF61 Accreditation applied for.