NextCentury
SUBMETERING SOLUTIONS

NextMeter Indoor

Ultrasonic Meter with NextCentury Connect™ Wireless

The ultrasonic NextMeter Indoor integrates sophisticated solid-state measuring technology with the NextCentury wireless platform. Making it the first solid-state meter purpose built for submetering.

Next Ultrasonic Technology

The NextMeter combines cutting-edge ultrasonic technology with the industry-leading AMR solution, all in a simple and easy to use meter designed for effortless deployment.

NextMeter ultrasonic technology reliably detects even the smallest amount of flow and extends this level of accuracy across all flow rates. Without moving parts to wear down over time, this reliability and accuracy is sustained over the full life of the meter.

NextCentury Wireless Platform

The NextCentury wireless solution has set the benchmark for performance and reliability. It is a metering solution that is simple to install and is paired with world class support.

Installation Simplified

With the best metering and wireless components combined into a single device, the NextMeter greatly reduces both installation and programming time.

The open flow-tube design enables the NextMeter to be installed earlier in the construction process, eliminating the need to use a spacer tube, and providing savings in time and material costs.

Key Benefits

- Designed for the needs of the indoor submetering market
- Accuracy that doesn't fade over time
- Open flow-tube design, reducing head loss

Quicker Installs

- All-in-one meter and transceiver simplifies installation
- Single visit installs for new construction

Established Platform

- Plug-n-play on the NextCentury wireless platform
- Fixed-wireless solution with real-time data and alerting

Built to Last

- Fully electronic with no moving parts that wear out
- Field replaceable battery

Specifications & Installation Guide

Technical Summary

Approvals

FCC ID: 2A8EC-NM4I | IC: 28950-NM4I

NSF/ANSI 61 | NTEP/CTEP Approval 23-055
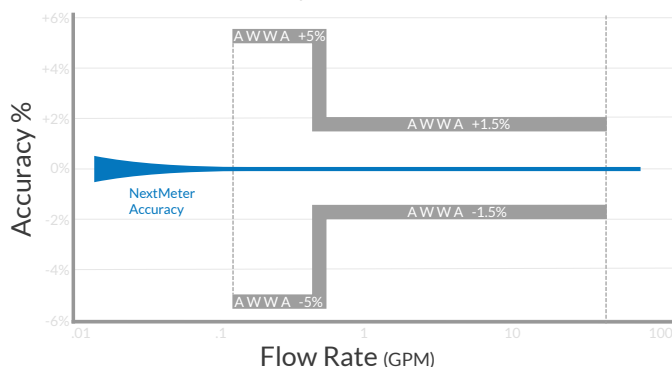
Conforms to AWWA C715-18 & UL 2043

Applications

Meter Size	Connection (NPSM)	Lay Length	Max Flow
⅝" x ¾"	1"	7 ½"	25
¾" x ¾"	1"	7 ½"	30
¾" Full*	1"	9"	30

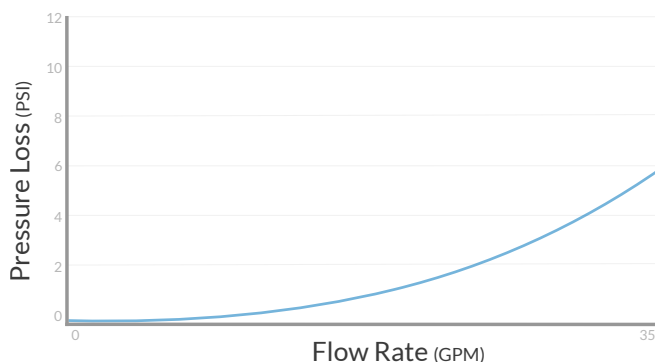*Available with 1 ½" extension coupling*

Flow Measurement

Measures flow as low as .01 gpm and up to 30 gpm

Exceeds AWWA accuracy standards

Pressure

Up to 200 psi operating pressure

Minimal head loss: less than 2 psi at 15 gpm

Temperature

Safe operation with water up to 180° F

Accuracy tested up to 150° F | 66°C

Ambient 33°F to 140°F | 2°C to 60°C

Storage 0°F to 100°F | 1°C to 38°C

Installation Requirements

Indoor installation only

Up to 90% non-condensing humidity

Horizontal or vertical installation

Register facing in any position best for reading

7.5" pipe straight before meter

Communications

Built-in NextCentury Connect™ 902-928 MHz wireless

Wireless reads received by Gateway (required)

Compatible with all NextCentury Gateways and Repeaters

Data

Web and mobile app

Open API access to interval data

Hourly high-resolution meter read

Ambient and water temperature

Flow profiling – max flow, abnormal flow

Cloud-configurable alerts and notifications

Battery

Typical 10-year battery longevity

Field-replaceable CR18505 lithium battery

LCD Registration

Displays 10 digits of total volume

Gallons, cubic feet, liters, or cubic meters

Flow indication wheel and current flow rate

Alert indicators – backflow, dry, low battery, leak
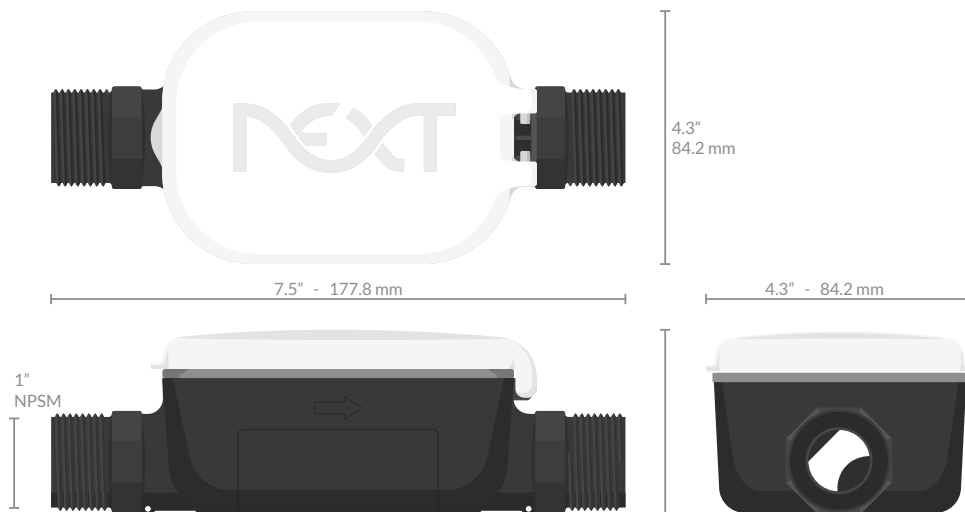
Wired Output

Pulse output capable with cable (accessory)

Ideal for remote meter display requirements

1 pulse per 10 gallons/liters

Specifications & Installation Guide

Installation Summary

Dimensions

4.3"
84.2 mm

7.5" - 177.8 mm

4.3" - 84.2 mm

1"
NPSM

Inline Options

The NextMeter Indoor can be installed horizontal or vertical.

Orient the register display facing the direction that will be convenient for reading.

New Construction

The NextMeter Indoor can be installed by a plumber as part of initial supply line work. The meter is not adversely affected by small debris that may pass through during flush-out procedures.

Supply Line Coupling

Ensure that supply lines are in alignment and include at least 7.5" of straight pipe before the meter. Do not rely on tightening the connection to pull pipes together or into alignment.

The meter must be installed in the correct direction of flow. The flow direction arrows can be seen on both sides of the meter.

Connect to your water supply lines using 1" NPSM meter couplings.

Always use new fiber or EPDM rubber gaskets and tighten to no greater than 15 ft-lb of torque.

Pressurizing Line

The NextMeter will begin measuring total flow as soon as air has evacuated and water has filled the line.

After pressurizing, feel around the coupling area to check for moisture and ensure a water-tight connection has been made.

LCD Display

00028,593.78

12.4 PM   gallons
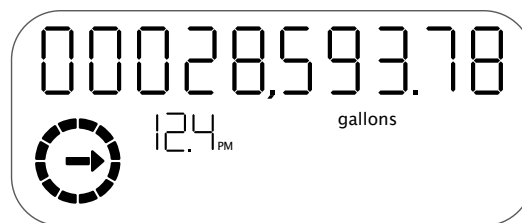
The LCD displays a 10-digit meter read, as well as the current flow rate and unit of measure. The flow indicator wheel spins when any flow is detected. The following status icons will show when applicable:

LCD display is inactive; close lid, then open again to view active display

The flow tube is dry

A burst pipe has been detected*

Battery has less than 10 months remaining

Transmitting meter read data

Wired output, pulse is being sent

The meter is accepting a new configuration

Event Count — Shows in place of the flow rate, count increments when meter configuration updated

* Smart Alerts available with Leak Monitoring Subscription

Wireless Communication & Programming

Programming & Configuration

Programming is the process of associating the meter's serial number with the unit number and water utility type where it is installed.

This process is quick and simple using the NextCentury web or mobile app. The website offers a rapid programming interface which is convenient for pre-programming devices before installation (nextcenturymeters.com)

Or, your meters can be programmed incrementally during installation using the mobile app.

App Store iOS App

Google Play Android App

Create the Building Layout

Using the web or mobile app, recreate your property's layout by adding buildings or floors and unit numbers.

Add Gateway and Repeaters

Add the serial number of the Gateway and Repeaters which have been or will be installed.

Scan the Meter's Barcode

Using an accessory barcode scanner or the mobile app's built-in barcode scanner, capture the serial number of the meter.

S/N: **BB123450**

Enter any location or description information that will be useful for tracking and maintenance.

Wireless Communication

Open the cover of the NextMeter to initiate a two-way wireless check-in.

The meter's LED indicator will blink green two times verifying its connection with the Gateway.

GW4 Gateway

If green blinks are not seen, ensure the Gateway is online and any needed Repeaters are powered on.

The cover can be closed and opened again to retry – if green blinks are not seen after retrying, an additional Repeater likely needs to be installed.

Leak Monitoring Subscription

Enable the Leak Monitoring Service subscription to begin utilizing the full suite of leak protection features.

Manage active leak alerts from the web app or allow property managers to manage alerts through Property Operator portal.

Once configured, alerts will automatically go out via phone, text, and/or email. Alert notifications are repeated until one of the Alert Contacts confirms that they have received the alert.

DASHBOARD

LEAK SENSORS

CLOUD
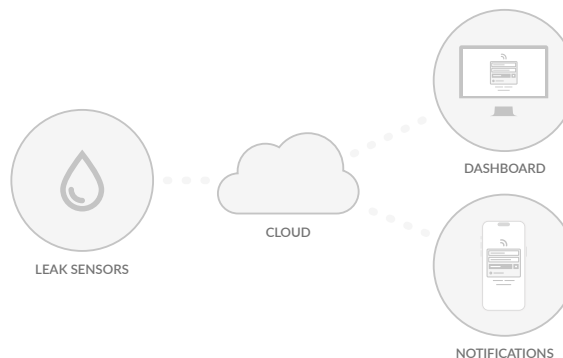
NOTIFICATIONS

Specifications & Installation Guide

## Testing & Quality Assurance

Performance in Application

Multi-family and commercial water distribution systems must be designed with careful consideration to prevent pressure spikes that exceed maximum pressure requirements. All plumbing components, fixtures, and appliances typically are required to withstand at 2x the nominal static water pressure.

The NextMeter is engineered to perform far beyond these basic requirements. Its rated maximum pressure far exceeds standard water supply specifications. And should a water system become over-pressured, the engineered and tested burst pressure is several times this operating maximum, ensuring that the NextMeter is unlikely to be be a point of failure, even in a plumbing system operating out of specification.

Pressure Endurance Testing

The NextMeter's advanced engineering and pressure endurance extends throughout its lifetime operation. This performance is verified using accelerated-life testing, in which the NextMeter is pressurized to 300 psi in cycles 100,000 times (see AWWA C17-18).

A typical single or multi-jet submeter will begin to leak or completely burst within an average of 15,000 pressure cycles. The NextMeter can endure over 100,000 pressure cycles, ensuring its operating integrity over its full service life.
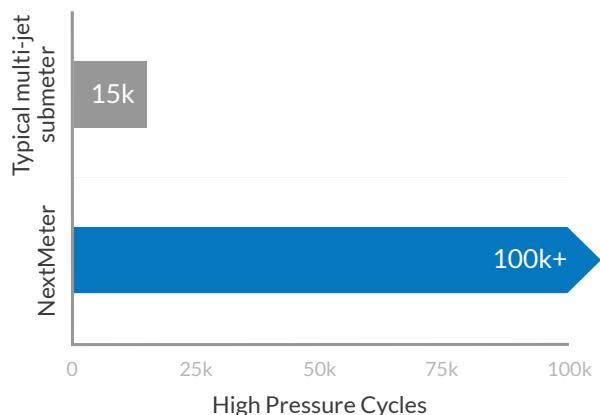
Design & Material Specifications

The NextMeter boasts a unibody design that is incredibly strong and resilient for long term maintenance-free operation. This contiguous flow-body design eliminates internal gaskets which are often a point of early failure in conventional meter designs.

Advanced glass-reinforced polymer offers increased durability, resistance to deterioration, and protection against water contamination.

UL 2043 Conformity

The NM4-I NextMeter has been tested to perform in accordance with UL 2043, "Fire test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air Handling Spaces".

Conformity to this UL code allows the NM4-I to be installed in air handling plenum spaces when applicable to your building design.

NSF Testing

The NSF testing is conducted to evaluate the quality and safety of the NM4-I NextMeter in compliance with NSF standards. The test ensures that the meter is free from harmful contaminants and can operate efficiently without posing any health risks.

Contact Information

For additional information or assistance, please visit our Support Center or contact our Product Support Team:

support.nextcenturymeters.com

(844) 538 8203

support@nextcenturymeters.com