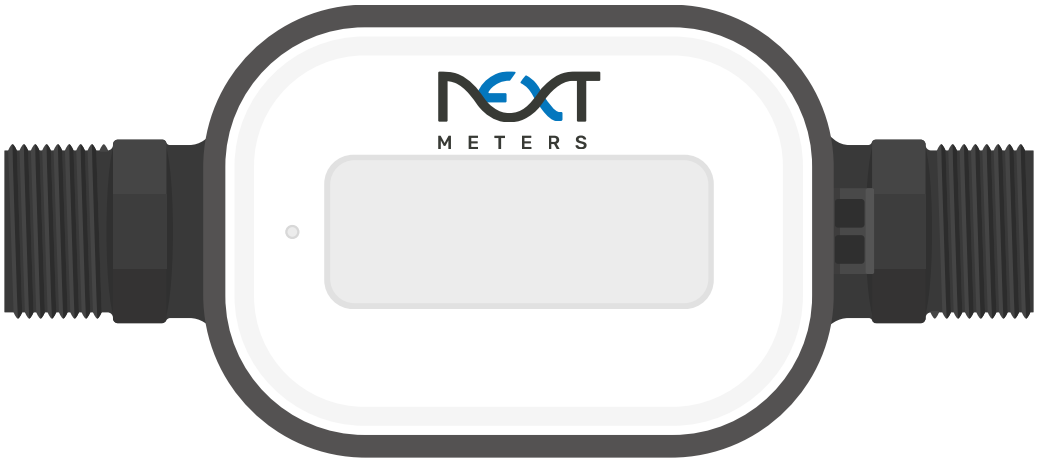
Specifications & Installation Guide

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 20-012
Complies with AWWA C715-18

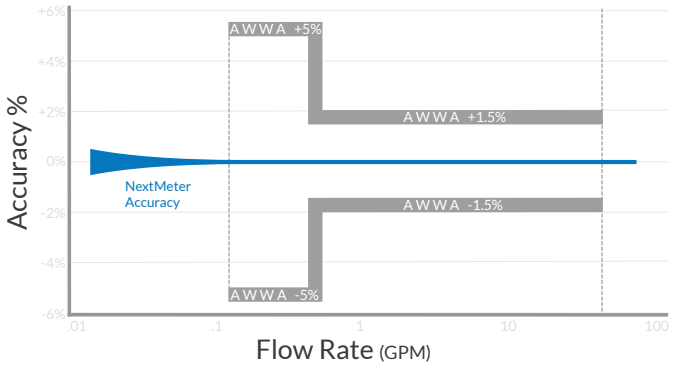
### Applications

| 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*

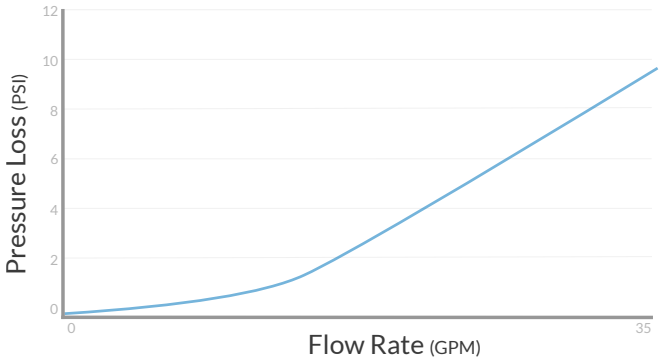
### Flow Measurement

Measures flow as low as .01 gpm and up to 30 gpm
Exceeds AWWA accuracy standards




### Pressure

Up to 250 psi operating pressure
Minimal head loss – 3 psi at 15 gpm




### Temperature

Water temperatures up to 180° F | 82°C
Ambient 36°F to 140°F | 2°C to 60°C
Storage 0°F to 100°F | -18°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

### 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

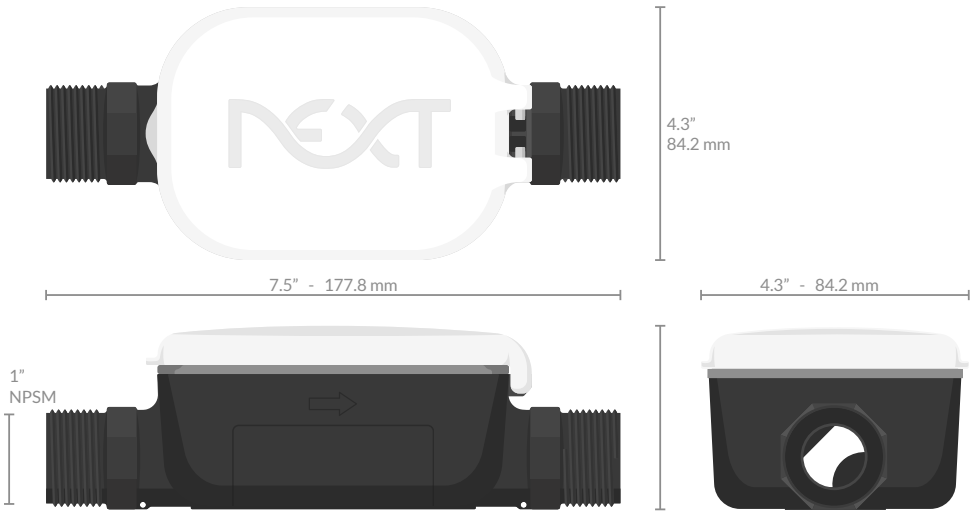
Displays 10 digits of total volume
Gallons, cubic feet, liters, or cubic meters
Flow indication wheel and current flow rate
Alert indicators – backflow, dry, low battery, leak

### Wired Output

Pulse output capable with cable (accessory)
Ideal for remote meter display requirements
1 pulse per 10 gallons/liters

## Installation Summary

### Dimensions




### Inline Options

The NextMeter Indoor can be installed horizontal or vertical.

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

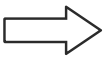
### New Construction

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 inlet and outlet supply lines are in alignment. 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.

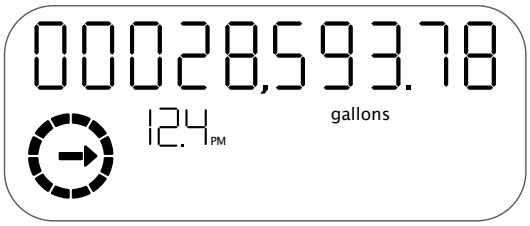
Always use new fiber or EPDM rubber gaskets and tighten to no greater than 11 ft-lb of torque.

### 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




The LCD displays a meter read up to 10 digits, 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


Tampering has been detected

Transmitting meter read data

Wired output, pulse is being sent

The meter is accepting a new configuration


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

## 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.


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.


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.

## Warranty & Regulation

### Spectrum Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

**FCC Section 15 & ISEDRSSs:**

This device complies with part 15 of the FCC Rules andInnovation, Science and Economic Development Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme aux flux RSS exemptés de licenced 'Innovation, Science et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférence; et

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

**Notice to User:**

Please note, as a user of this equipment that any changes or modifications made to this device that are not expressly approved may void your authority to operate the equipment.

**Exposure to RF:**

This equipment complies with FCC and IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Énoncé d'exposition aux rayonnements: Cet équipement estconforme aux limites d'exposition aux rayonnements ioniques RSS-102 Pour un environnement incontrôlé. Cet équipement doitêtre installé et utilisé avec un Distance minimale de 20 cm entrele radiateur et votre corps.

### Contact Information

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