NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Meter Indicating Volume
Digital Electronic Ultrasonic Water Meter
Model: NM4-I
Size: 5/8" X 3/4", 3/4" X 3/4"
Maximum Flow rate: 30 gpm

Submitted By:
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#105
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Standard Features and Options

Standard Features

- All Digital Display
- Horizontal or vertical installation
- Register facing in any position best for reading
- Unit(s): U.S. Gallons, Cubic Feet
- Flow Direction Arrow is Molded into Threaded Meter Body
- Integrated Radio Transmit (radio not tested)
- Maximum Operating Pressure: 200 psi
- Temperature Range Tested: 72°F - 136°F
- Cold and Hot Water Certified
- Integrated Smart Alerts *(Back-flow detection, leak alert, no water, burst pipe, low battery, freeze not tested)*

Note: Approved for use only when installed according to the manufacturer's instructions in any orientation.

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Marc Paquette
Chair, NCWM, Inc.

Gene Robertson
Chair, NTEP Committee
Issued: January 27, 2025

Next Meters, LLC

Meter Indicating Volume / NM4-I

Application: Approved for use as a domestic water meter in **any** horizontal or vertical position for legal sub-metering installations.

Identification: All required information is on the face of the meter. Flow direction is molded into the meter body.

Sealing: The meter is sealed by internal mechanical tabs pressed together during the assembly process. Once assembled, these tabs prevent the lid from being removed without damaging both the lid and the meter body.

Operation: Ultrasonic flow meters measure the difference in the transit time of an ultrasonic sound wave beam propagating in and against the flow direction of time. This time difference is a measure for the average velocity of the fluid along the path of the ultrasonic beam. By using the absolute transit times, both the average fluid velocity and the speed of sound can be calculated. This meter is to be tested as "other than multi-jet" per the National Institute of Standards and Technology (NIST) Handbook 44 Specifications and Tolerances, Section 3.36. Water Meters, Table T.1. Accuracy Classes and Tolerances for Water Meters

Test Conditions: This certificate supersedes Certificate of Conformance 23-055 and is issued to update the GPM and psi ratings to the manufacturer's technical specifications. Previous test conditions are listed below for reference.

Certificate of Conformance 23-055: Nine meters were tested. Five were tested with cold water and four were tested with hot water (130 degrees F to 140 degrees F). Meters were tested in every orientation, including face down (upside down), face up, face sideways, vertical up flow, and vertical down flow. At all required flow rates, tolerance and repeatability requirements were met. After initial testing, the meters were subjected to permanence, and after 200,000 gallons of water were passed through the meters, they were retested. All tolerance and repeatability requirements were met.

Evaluated By: A. Katalinic (NCWM) 23-055 (CN 10659); J. Gibson (NCWM) 23-055A1 (CN 11312)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2023 Edition. *NCWM Publication 14: Measuring Devices*, 2023 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: D. Flocken (NCWM) 23-055; J. Gibson (NCWM) 23-055A1

Example of Device: