



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Meter Indicating Volume
Water Meter
Multi-Jet
Model: M201C and M201CH
Size: 3/4"
Maximum Flow Rate: 30 gpm

Submitted By:

Next Century Submetering Systems
1773 Highland View Dr.
Augustine, FL 32092
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Standard Features and Options

Standard Features:

- Sealed Eight-Wheel Odometer Type Register
- Unit of Measure: Gallons
- Maximum Operating Pressure: 150 psi
- Polymer Main Case and Polymer Register
- Magnetic Drive Register
- External Male Threaded Spuds 7.5" Length

Options:

- Pulse Output Wires (Functions not Evaluated)
- Temperature Range Tested: 58°F - 157°F

Note: Approved for use only when installed according to the manufacturer's instructions in a horizontal or vertical position for temperature range 58°F - 80°F. Additionally, horizontal position is approved for temperature range 80°F - 157°F.

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
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Next Century Submetering Systems
Meter Indicating Volume / M201C and M201CH

Application: Approved for use as a domestic water meter in legal sub-metering installations.

Identification: The manufacturer's name "Next Century Submetering Systems," gallons unit of measure, serial number (S/N), meter size, model number (prefaced with the word "Model"), and National Type Evaluation Program (NTEP) Certificate of Conformance (CC) Number are printed on the register face. The flow direction indications are permanently marked into the body of the meter.

Sealing: The meter is sealed with a wire security seal threaded through a hole in the register and the meter body inlet.

Operation: This is a multi-jet type water meter utilizing a multi-jet measuring element and a magnetically driven sealed register. The multi-jet measuring element converts flow velocity into a volumetric registration in gallons.

Test Conditions: Three multi-jet meters were submitted for evaluation. The meters were mounted in line on a gravimetric water meter test bench at the factory with National Institute of Standards and Technology (NIST) traceable weights using city water for all flow rates. The meters were subjected to three tests each at the maximum, intermediate, and minimum flow rates for the 3/4" meter size. After successful initial testing, throughput in excess of 200 000 gallons of water flowed through the meters before permanence tests were conducted. The emphasis of the evaluation was on the device design, marking requirements, accuracy, and repeatability of the meter within the temperature ranges of 58°F to 157°F.

Evaluated By: D. Reiswig (CA) and J. Roach (CA)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Measuring Devices*, 2015 Edition.

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

Information Reviewed By: J. Truex (NCWM)

Examples of Device:

M201CH with Register



M201C with Register Side View

