



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

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

Submitted By:

Next Century Submetering Systems
P.O. Box 360
Tybee Island, GA 31328
Tel: 904-536-6902
Fax: 858-541-2208
Contact: Mike Clements
Email: mclements@nextcenturymeters.com
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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 for Automatic Meter Reading (AMR) (Functions not Evaluated)
- Temperature Range Tested: 58°F – 177.5°F

Note: Approved for use only when installed according to the manufacturer's instructions in a horizontal or vertical position for temperature range 33°F – 177.5°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.

James Cassidy

Chairman, NCWM, Inc.

Kristin Macey

Committee Chair, National Type Evaluation Program Committee

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Next Century Submetering Systems Meter Indicating Volume / M201C & M201CH

Application: Approved for use as a domestic water meter vertically or horizontally in legal submetering 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: Two multi-jet meters were submitted for evaluation. The meters were mounted vertically 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 of 202 272 gallons of water flowed through the meters before permanence tests were conducted. The emphasis of the evaluation was on the device design, marking requirements, vertically installed accuracy, and repeatability of the meter within the temperature ranges of 71.5°F to 177.5°F.

Certificate of Conformance Number 15-045: Three multi-jet meters were submitted for evaluation. The meters were mounted horizontally 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, J. Roach (CA) 15-045; J. Contreras, J. Roach (CA) 15-045A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Measuring Devices*, 2017 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:



M201C with Register Side View



Model M201CH with Register