



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Register for Meter
Register/Indicator for Water Meters

Model: TMD

Submitted By:

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Standard Features and Options

Standard Features:

- Unit(s): gallons (gal) or cubic feet (ft³)
- 2x16 Character (up to 12-digit) Liquid Crystal Diode (LCD) Display with backlight
- Power: CR123A 3-Volt Direct Current (VDC) lithium battery, field-replaceable
- Meter pulses per increment displayed; programmable in units/pulse: ...0.001,0.01,0.1,1,10,100...
- Encoded meters (direct read indicator)
- Outdoor/indoor use
- Battery-voltage indicator

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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Craig VanBuren
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, NTEP Committee
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SCADAmetrics Register for Meter / TMD

Application: For use as an indicator for certified and compatible encoded water meters.

Identification: The required identification (ID) information detailing the make, model number, serial number, and the National Type Evaluation Program (NTEP) Certificate of Conformance (CC) number is permanently printed on a tamper-evident label on the indicator, and the unit of measurement is indicated on the LCD screen (*Figure 1*).

Sealing: The indicator has a Category 1 security sealing provision. To prevent undetected access to all connections made to the indicating element (register), adhesive tamper-evident seals must be placed across the parting lines of the case enclosure (*Figure 2*).

Operation: The indicator receives the encoded direct-read signal from a single compatible water meter to display water usage in gallons or cubic feet when the “Press to Read” button is pressed.

Test Conditions: Two model TMD encoded indicators were submitted for evaluation in gallons and cubic feet. Both indicators were interfaced with Neptune T-10® E-Coder® water meters. The indicating elements and the water meter displays were checked for agreement of indication at the various flow rates for approximately 1.5 hours.

Evaluated By: J. Roach (CA)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14 Measuring Devices*, 2020 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)

Example(s) of Device:



Figure 1. Required ID information



Figure 2. Sealing Provisions