

**State of California**  
Department of Food and Agriculture  
Division of Measurement Standards

Certificate Number: 5503-06

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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**

Indicating Element, Water Meter  
Digital Electronic  
Model: HF 1-RC

**Submitted by:**

Meter Reading System  
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**Standard Features and Options**

- Seven digit liquid crystal diode (LCD) display
- Power 3.6 VDC internal lithium battery
- Meter pulses per increment displayed: One
- Unit of measure: Gallon or cubic feet

**Option:**

- Single or dual display (see picture on Page 2)

**Note:** The device must be enclosed to protect it from extreme temperature conditions if installed outdoors.

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: November 29, 2006



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Mike Cleary, Director

**Meter Reading System  
Indicating Element, Water Meter  
Model: HF 1-RC**

**Application:** For use as an indicator for approved and compatible water meters capable of sending a pulsed output signal. The device may be used in locations where the water meter display is difficult to read after installation.

**NOTE:** Written installation instructions shall be included with each indicator.

**Identification:** An identification label is located on the indicator housing next to the LCD display. Additionally, a duplicate identification label is located inside the housing near the display.

**Sealing:** To prevent access to adjustable components inside, an adhesive tamper evident seal may be placed across both sides of the indicator enclosure. The indicator enclosure covers are held in place with four mounting screws. Additionally, sealing provisions must be available for all connections made to the indicating element. The water meter may be sealed according to the manufacture's instructions.

**Operation:** The indicator uses the pulsed output from the water meter to display water usage in gallons or cubic feet. The dual display indicator can receive pulsed signals from two water meters.

**Test Conditions:** Three Model HF 1-RC indicating elements were submitted for evaluation. Each indicator was interfaced to water meters capable of sending a pulsed output signal and was tested at various flow rates. The indicating elements and the water meter displays were checked for agreement at the various flow rates. After 50 days of use the indicators were tested again for agreement of indication. Additionally, the device was tested with voltages from 1.4 VDC to 3.9 VDC

Results of the evaluation indicate the device complies with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2006 Edition

**Tested By:** Sonia Muñoz (CA)

Model HF 1-RC single and dual displayed below

