

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

Certificate Number: 5449-05

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

For:

Electric Watthour Meter
Electronic
Models: Series 10

Submitted by:

Quadlogic Controls Corporation
520 Eighth Avenue, 7th Floor
New York, NY 10018-6575
Tel: (212) 930-9300
Fax: (212) 930-9393
Contact: Jason Kim
Internet: www.quadlogic.com

Standard Features and Options

Model Designation:

- The Model Series 10 comes in 2 different enclosure styles, flush and surface mount meters. The meter uses external Current Transformers (CT's) and self-contained Liquid Crystal Display (LCD) registers.
- 120/208 VAC, Kh 16, Wh, Class 200, TA 30, 3 elements, multiplier x2
- 120/240 VAC, Kh 16, Wh, Class 100, TA 15, 2 elements, multiplier x1
- 120/208 VAC, Kh 16, Wh, Class 200, TA 30, 3 elements, multiplier x2
- 120/240 VAC, Kh 16, Wh, Class 100, TA 15, 2 elements, multiplier x1

Current Transformers (CT's): (used with the Series 10 meter)

- Model TCT2 (black in color, closed loop style), accuracy class 0.6, rating 200:0.1A
- Model TCT2 (black in color, closed loop style), accuracy class 0.6, rating 100:0.1A
- Model TCT13 (black in color, closed loop style, smaller in size), accuracy class 0.6, rating 100:0.1A

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: September 29, 2005



Mike Cleary, Director

**Quadlogic Controls Corporation
Electric Watthour Meter
Models: Series 10**

Application: For use as a watthour metering system in legally submetered electric service applications.

Identification: The identification label is applied to the back of the meter body inside the enclosure case due to the cover and case being removable. A supplemental label is applied to the face of the meter for the ease of reading the label when it is installed.

Sealing: A tamper evident paper or tape security seal may be applied to the meter case and lid on the Model Series 10 meter once testing is completed. There are no adjustable components in the meter.

Operation: The cover must be removed to use the TEST LED on the Series 10 model. The “TEST LED” provides a visual display of Wh usage, with a pulse rate Kh of 16 (i.e., one on/off cycle is 16 watthours). The register provides a visual KWH display.

Test Conditions: Samples of each model meter and current transformers were submitted for evaluation. The meters were initially tested at the Division of Measurement Standards (DMS) lab. The meters were then sealed and installed at a field location. After a permanence period of approximately 30 days the meters were returned to DMS lab for retesting. The meters were subjected to a combined total of over 210 tests from 3 amps to 50 amps at both unity and 0.5 power factors.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2005 Edition

Tested By: Joe Raspino (CA), John Roach (CA)

