

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

Certificate Number: 5453-05

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

For:

Electric Watthour Meter
Electronic Socket Meter
Model: S-20

Submitted by:

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Standard Features and Options

Model Designation:

- The Model S-20 is a self-contained socket meter with a Liquid Crystal Display (LCD) register
- Form 1S, 120 VAC, Kh 16, Mult 1, Class 100, TA 15
- Form 2S, 240 VAC, Kh 8, Mult 1, Class 200, TA 30
- Form 12S, 120/208 VAC, Kh 32, Mult 1, Class 200, TA 30

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: October 31, 2005



Mike Cleary, Director

Quadlogic Controls Corporation
Electric Watthour Meter
Model: S-20

Application: For use as a watthour metering system in legally sub-metered electric service applications.

Identification: The identification label is applied to the face of the meter.

Sealing: A wire security seal may be applied through a hole on the meter case and through a drilled head screw that is recessed in the meter casing (see Fig. 1). There are no mechanical metrological adjustable components in the meter.

Operation: The "TEST LED" (see Fig. 2) provides a visual display of Wh usage, with a pulse rate Kh of 8, 16 or 32 (i.e., one on/off cycle is 8, 16 or 32 watthours). See Page 1 for Kh values based on the meter form number. The register provides a visual KWH display.

Test Conditions: Samples of each model meter 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) and John Roach (CA)

