

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

Certificate Number: 5533-07

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

For:

Electric Watt-Hour Meter (Electronic)
Models: RSM5c and 120X00-X
Voltage Rating: 120 VAC or
208 VAC as a 3-phase 4 wire wye
Class: 100 or 200 (100 or 200 Amps Max.)
TA: 15 or 30 (15 or 30 Test Amps)
Watt-hour Test Constant Kh = 0.016 Kwh or 16 Wh

Submitted by:

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Standard Features and Options

Model Designation:

RSM5c	120	X00	-X
Meter Type	AC Volts for each element (CT)	100 = Class 100 Meter 200 = Class 200 Meter	1 = 1 CT 2 = 2 CT's 3 = 3 CT's

- 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

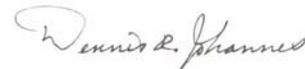
Internal Indicators:

- Liquid crystal display (LCD) digital indicator 1 Kwh register

External Current Transformers (CT's):

- Model TCT2 (black in color, closed loop style), accuracy class 0.3, rating 200:0.1A
- Model TCT2 (black in color, closed loop style), accuracy class 0.3, rating 100:0.1A
- Model TCT13 (black in color, closed loop style, smaller in size), accuracy class 0.3, 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: July 16, 2007

Dennis R. Johannes, Director

**Quadlogic Controls Corporation
Electric Watt-Hour Meter
Models: RSM5c and 120X00-X**

Application: For use as a watt-hour metering system in legally submetered electric service applications.

Identification: Meter identification information is on the face of the meter door cover. An additional serial number is on the inside of the meter near the LCD due to the door being removable. The external CT's identification is on the side of the CT.

Sealing: A wire security seal may be applied to the meter case and door cover. There are no adjustable components in the meter.

Operation: A "TEST LED" provides a visual display of Wh usage, with a pulse rate Kh of 16 (i.e., one on/off cycle is 16 watt-hours). The register provides a visual Kwh display.

Test Conditions: Samples of each model meter and current transformers were submitted for evaluation. The meter is metrologically the same as the "Series 10" model CA#5549-05. The emphasis of the evaluation was on labeling and sealing of the new enclosure package. Previous test conditions are listed below for reference.

Certificate of Approval Number 5549-05: 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 1.5 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, 2007 Edition

Tested By: John Roach (CA)

