

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

Certificate Number: 5166-01

Page 1 of 2

***California Type Evaluation Program***  
***Certificate of Approval***  
***for Electric Meters***

**For:**

Electronic Watt-Hour Meter  
Generic Name: Metermaid  
Model: 32/1

**Submitted by:**

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**Standard Features and Options**

100-130 volts AC  
Class 32  
TA 15 amps  
Kh .5  
LED (1 flash = 0.5 watt-hours)  
Electro-mechanical register  
    0.1 kilowatt-hour minimum display increment  
    Six digit non-resettable display  
32 amps maximum  
Single phase  
Single element  
60 HZ

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: February 13, 2001

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Mike Cleary, Director

**Microcustom Ltd.**  
**Electronic Watt-Hour Meter**  
**Model: 32/1**

**Application:** These watt-hour meters are to be installed on the load side of the serving utility's master meter in legally submetered RV parks and marinas.

**Identification:** The meter identification is located on the meter housing.

**Sealing:** The meter does not require a security seal. The meter case is filled with resin. This seals the meter case and encases the measuring elements, which prevents access to the adjustable components. The line side connections of the meter must be hardwired and contained within a sealable enclosure.

**Operation:** The meter shall be installed where the meter class equals or exceeds the total capacity in amperes of the thermal overload protectors.

**Test Conditions:** Two meters were evaluated at the Division of Measurement Standards in Sacramento. The emphasis of the evaluation was on meter accuracy, identification, and permanence. Three tests were performed at 30, 15, and 1.5 amperes. Three power factor tests at 50 percent lag power were performed at 30, 15, and 3 amperes. A creep test and a 0.5 amperes test were also performed. The meters were installed and used for approximately 90 days and retested.

This is a 120 volt, 2-wire meter.

When connecting a Knopp standard to the meter for testing:

- The "A" lead (hot) is connected to the line side (brown wire) of the meter.
- The "B" lead (neutral) is connected to the line side (blue wire) of the meter.
- The "C" lead is not used.
- The "D" lead (current) is connected to the load side (brown wire) of the meter.

**NOTE:** The meter is marked with arrows pointing to the "load" and "line" sides of the meter.

The results of the evaluation indicate the devices comply with applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2001 Edition

**Tested By:** Dan Reiswig (CA), Sam Chan (CA)