

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

Certificate Number: 5669-11  
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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing and Measuring Devices***

**For:**  
 Electronic Watt-Hour Meter  
 Model: 5BX01-X0X  
 Generic Name: Epoxy Encapsulated or EE Mini Meter  
 Voltage Rating: 120/208/240 VAC  
 Class: 100 (100 Amps Max.)    TA: 15 Amps  
 Class: 200 (200 Amps Max.)    TA: 30 Amps

**Submitted by:**  
 Leviton Manufacturing Co.  
 formerly Integrated Metering Systems, Inc.  
 20494 SW Teton Avenue  
 Tualatin, OR 97062  
 Tel: 727-539-1813  
 Fax: 727-539-1984  
 Contact: Charlie Wilde  
 Internet: [www.leviton.com](http://www.leviton.com)

**Standard Features and Options**

**Meter Model Designation:**

5	B	X01	-	X	0X
Epoxy Encapsulated Mini Meter Series	Individual meter enclosure	Voltage 101 = 1 pole, 1PH, 2W; 120v  201 = 2 pole, 2PH, 3W; 120/208/240v	-	Counter Type H = 1Kwh isolated output - meter only T = 0.1Kwh isolated output - meter only	CT Rating  01 = 100:0.1 02 = 200:0.1

**Current Transformers (CTs):**

C	D	X	0X	X	X
Current Transformer	D = Solid Core	Vendor Code A = IMS-WEGO (larger CT) E = WEGO (smaller CT)	01 = 100 Amps 02 = 200 Amps	K = Black L = Blue R = Red	X = 11 or 12 non metrological

**External Indicating Elements:**

12VDC analog indicating element or 12 VDC liquid crystal display (LCD)

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.

*Kristin Macey*

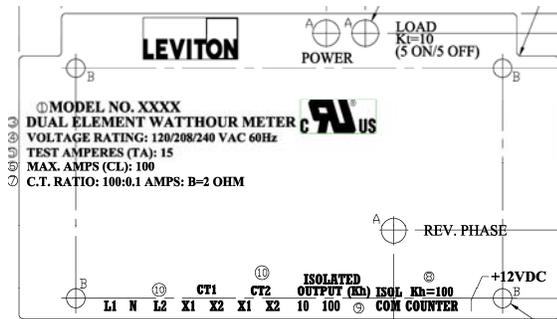
Effective Date: August 30, 2011

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 Kristin J. Macey, Director

**Leviton Manufacturing Co.  
Electronic Watt-Hour Meter / Model: 5BX01-X0X**

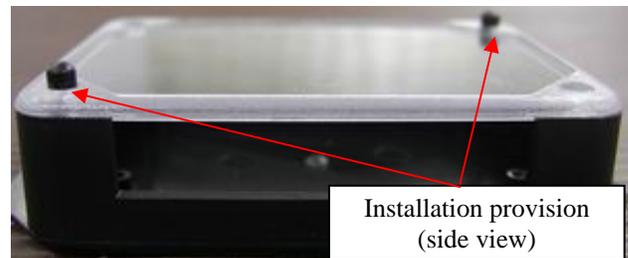
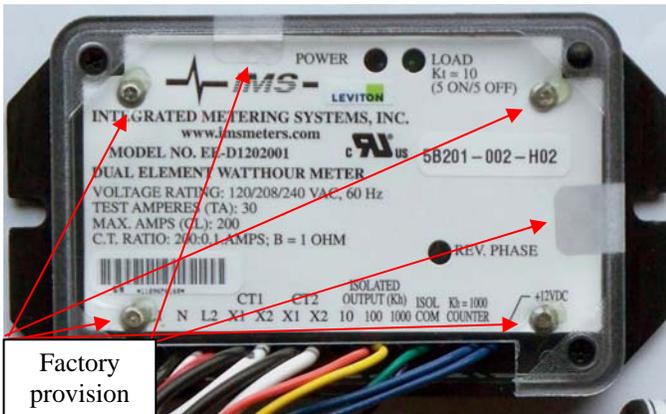
**Application:** For use in legally sub-metered service systems.

**Identification:** The watt-hour meter identification label is applied to the face of the meter. The CT identification is attached to the face of the CTs.



**Sealing:** The Mini Meter (EE) model has two types of sealing provisions: Factory and Installation provisions.

- **Factory Provision:** The manufacturer’s supplied ID label is secured with two adhesive tamper evident security seals (factory seals) and epoxy cement covers all four of the label mounting screw heads. This prevents access to two metrologically adjustable components located under the plastic ID label.
- **Installation Provision:** The installation provision uses a clear plastic lid and the black case has two pins with drilled holes for two wire security seals on both sides to prevent terminal tampering after installation. This provision seals the terminal block connection once installed by a service agent.



**Operation:** The “POWER” LED is illuminated whenever line voltage is present. The “LOAD” LED provides a visual display of KWh usage, with a pulse rate (Kt) of 10 (i.e., 5 watt-hours on, 5 watt-hours off). The load LED will not change states unless a load is applied.

The terminals labeled “L1” and “N” are the AC voltage supply terminals for 120 VAC. The terminals labeled “CT1 (x1 and x2)” are the CT terminals for a single element (2-wire meter). The terminals labeled “L2” and “CT2 (x1 and x2)” are used for the 208/240 VAC supply and dual element (3-wire meter).

**Leviton Manufacturing Co.**  
**Electronic Watt-Hour Meter / Model: 5BX01-X0X**

**Test Conditions:** This certificate supersedes Certificate of Approval Number 5361(a)-06 and is issued to change the name from Integrated Metering Systems (IMS), Inc. to Leviton. The emphasis of the evaluation was on adding model number cross over from IMS to Leviton. There may be some hybrid CT and meter model numbers and manufacturer names until the stock of IMS meters and CTs are all utilized. Previous tests conditions are listed below for reference.

**Certificate of Approval Number 5477-06:** This was issued to add Epoxy Encapsulated (EE) material to cover the printed circuit board components and a new smaller CT model. Three Epoxy Encapsulated (EE) Mini Meters with two CT models (CT200124XX and CT200124XX-A) as well as five indicating elements were submitted for evaluation. The meters were tested at the Division of Measurement Standards lab. The meters were subjected to a combined total of over 90 tests from 3 amps to 60 amps at both unity and 0.5 power factors. This meter is metrologically the same as the Mini Meter series from Certificate of Approval Number 5361(a)-06 and has been through permanence on that certificate.

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

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2011 Edition

**Tested By:** John Roach (CA) 5361-03; Sonia Munoz (CA) and John Roach (CA) 5477-06, 5477(a)-11