

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

Certificate Number: 5511-07
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Electronic Watthour Meter
Models: E1XP
Voltage Rating: 120/208-240 VAC
Class: 200 (200 Amps Max.)
TA: 30 (30 Test Amps)
Watthour Test Constant Kh = 0.01 Kwh or 10 wh

Submitted by:

Energy Billing Systems Inc.
2150 Lelaray Street
Colorado Springs, CO 80909
Tel: (719) 310-3352
Fax: (719) 632-9497
Contact: Roger Freislag
Internet: www.energybillingsystems.com

Standard Features and Options

Model Designation:

E	1	X	P
Electronic	Single Meter	2 = Two elements 3 = Three elements	Phase

Class 200 meter with TA 30 that uses a 200A:2V external current transformer(s)

Internal Indicators:

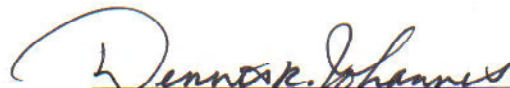
Liquid crystal display (LCD) digital indicator 1 Kwh register

Current Transformers (CT's):

200A, CTR 200A:2V, Accuracy 0.3, externally mounted connector plug terminal (Model D200)

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: January 31, 2007


Dennis R. Johannes, Director

Energy Billing Systems Inc.
Electronic Watthour Meter
Models: E1XP

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

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

Sealing: The meter case and cover may be secured by threading wire through holes on the enclosures located on the top and bottom of the case and cover. Additionally, a factory installed tamper evident seal is placed over the printed circuit board calibration test points to prevent unauthorized access to the meters electronic settings. Furthermore, the printed circuit board has tamper evident material covering four mounting screws.

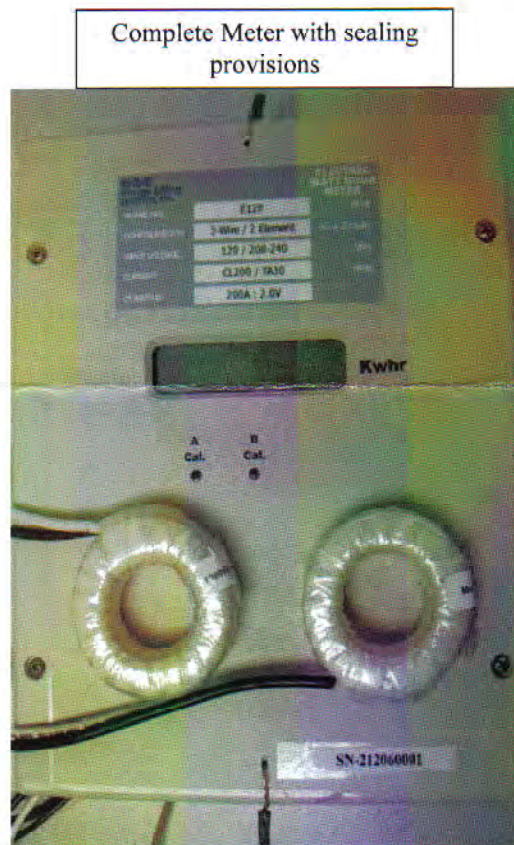
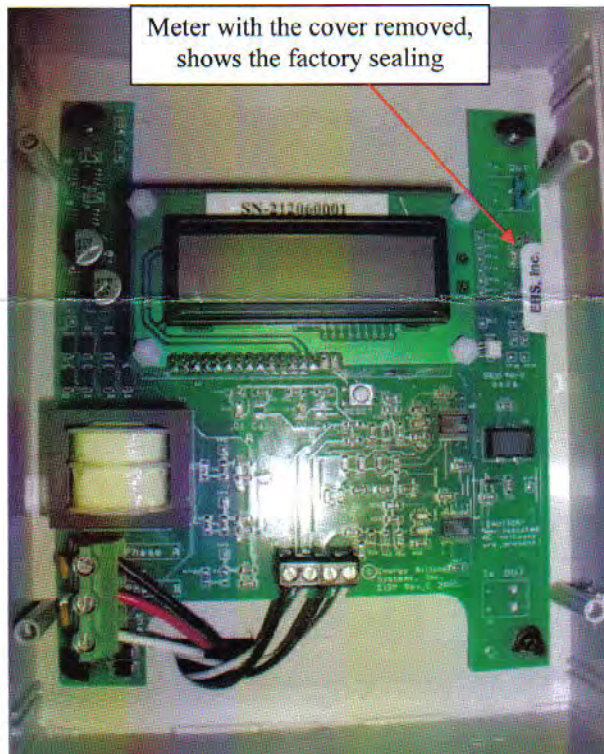
Operation: A wiring diagram is on page three. A Cal. LED blinks instantaneously when the meter is under load for each phase and may be used for testing. The Cal. LED indicates 0.01 Kwh or 10 watt-hours per increment. The CT's line and load are not direction sensitive.

Test Conditions: Meter Models E12P and E13P with current transformers were submitted for evaluation. The meters were initially tested at the Division of Measurement Standards (DMS) lab. The meters were then installed on a test bench at DMS with various loads. After a permanence period of approximately 28 days the meters were retested. The meters were subjected to accuracy tests from 3 amps to 50 amps at both unity and 0.5 power factors. Starting load and creep tests were also conducted.

Results of the evaluation indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2007 Edition

Tested By: John Roach (CA)



Energy Billing Systems Inc.
Electronic Watthour Meter
Models: E1XP

