

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

Certificate Number: 5497-06

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

For:

Electronic Watthour Meter
Models: TX120X00X
Generic Name: TX-2005 Series
Voltage Rating: 120/208/240 VAC
Class: 100 (100 Amps Max.) or 200 (200 Amps Max.)
TA: CL100 = 15 Amps or CL200 = 30 Amps
Watthour Test Constant Kh = 10 wh

Submitted by:

Intellimeter Canada Inc.
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Standard Features and Options

Model Designation:

TX	120	X00	X
Transformer type Din-Rail mounted meter	120 = 120V Phase to Neutral	100 = CL100A 200 = CL200A	1 = One element 2 = Two elements 3 = Three elements

Options:

Class 100 meter with TA 15 that uses a 2500:1A internal Printed Circuit Board (PCB) mounted current transformer(s)
Class 200 meter with TA 30 that uses a 2000:1A external current transformer(s)

Internal Indicators:

Electromechanical (12 VDC analog indicator) 1 Kwh register

Current Transformers (CT's):

100A, CTR 2500:1A, Accuracy 0.3, internal PCB mounted current transformer
200A, CTR 2000:1A, Accuracy 0.3, externally mounted connector plug terminal (Model CT2001)

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: September 26, 2006



Mike Cleary, Director

Intellimeter Canada Inc.
Electronic Watthour Meter
Models: TX120X00X

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 case. The external CT's identification is on the side of the CT. The internal CT's are permanently attached to the meter and require no additional markings.

Sealing: The meter case (two halves, top and bottom enclosures) may be secured with wire security seals. The seals may be threaded through holes on the enclosures located on the top and bottom of the case. Factory adhesive tamper evident seals cover the CT wire terminals on the plug and for securing the plug to the meter.

Operation: A **Power LED** on the meter is illuminated when the AC power is applied. A **Load LED** blinks when the meter is under load and may be used for testing. The **Load LED** indicates 0.01 Kwh or 10 watthours per increment [one cycle (on/off/on) is 10 wh]. The CT's line and load are direction sensitive. The **Dir. LED** illuminates when a CT is connected incorrectly.

Test Conditions: Meter Models TX-1201001, TX-1201002 and TX-1202003 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 1.5 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 devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2006 Edition

Tested By: John Roach (CA)

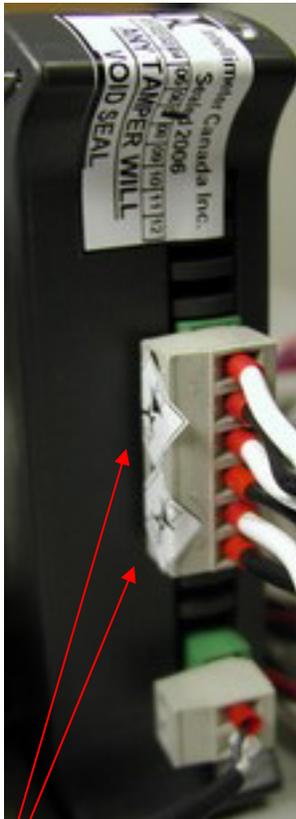


Model TX-1201002 meter with two internally attached CT's

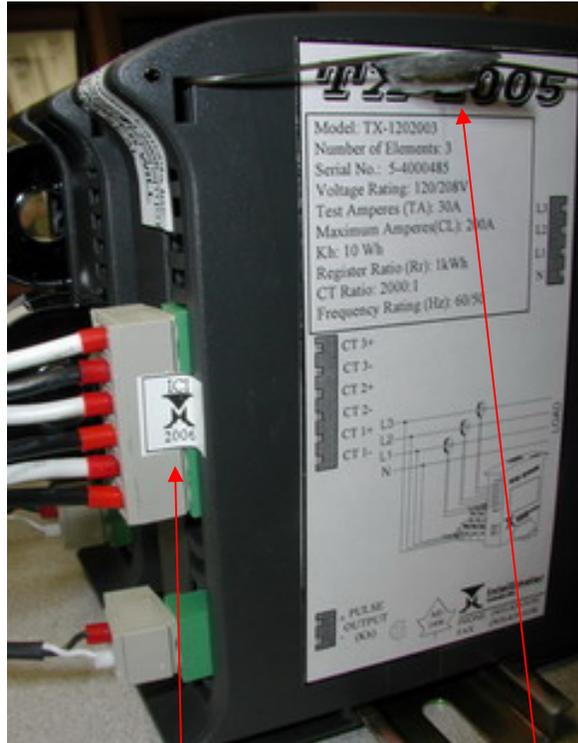


Meter indicator with load, dir., and power LED's

Intellimeter Canada Inc.
Electronic Watt-hour Meter
Models: TX120X00X



Model TX-1202003 meter showing the factory adhesive tamper evident seals covering the external CT plug terminal screw connections



Model TX-1202003 meter showing the factory adhesive tamper evident seals for securing external CT plug to the meter and wire security seals for sealing the meter



External CT's