State of California

Department of Food and Agriculture Division of Measurement Standards

> Certificate Number: 5628-10 Page 1 of 4

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

For:
Electronic Watt-hour Meter
Models: MP-636 XXXX
Generic Name: MP-636 Series
Voltage Rating: 120, 240 VAC
Class (CL): 200 Amps
Test Amps (TA): 30 Amps
Watt-hour Test Constant (Kh) = 10 Wh or 0.01 kWh

Model Designation:

Submitted by:

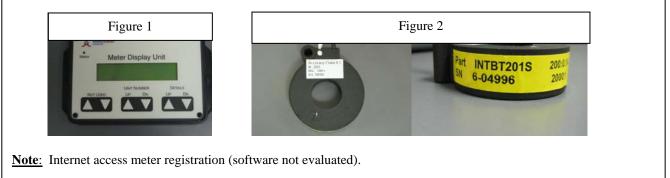
Intellimeter Canada Inc. 1125 Squires Beach Road Pickering, Ontario L1W 3T9 Canada Tel: (905) 839-9199 Fax: (905) 839-9198 Contact: Jeffery R. Kistner Internet: <u>www.intellimeter.on.ca</u>

Standard Features and Options

MP-636	XXXX
Manufacturer's form of identification	EXTC = External CT's INC = Internal CT's

Indicators: Meter Display Unit (MDU): 1.0 kWh register. The Meter Display Unit (MDU) is a tenant display for registration that automatically cycles through the customer identifier (Suite, Apt., Slip or Coach [i.e. Suite 234]) at a three second interval. The customer identifier may also be scrolled through by pressing the up/down "Unit Number" buttons until the desired unit is visible in the display so registration can be read. (See Figure 1)

Current Transformers (CT's): Intellimeter Canada Inc., Model Number: INTBT201S, closed loop style, accuracy class 0.3, rating 200A, CTR 200:0.1A or 2000:1 Standard CT. (See Figure 2) Intellimeter Canada Inc., Model Number: INT200-PCB, closed loop style, accuracy class 0.3, rating 200A, CTR 200:0.1A or 2000:1, mounting sleeve CT. (See Figure 4)



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 8, 2010

Edmund E. Williams, Director

Intellimeter Canada Inc. Electronic Watt-hour Meter Models: MP-636 Series

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

Identification: The MP-636 Series watt-hour meter identification label is applied to the front of the meter housing and must be visible after installation. (See Figure 3 & 4 for Identification label location)

Meter No.	Serial No.	CT No.	Suite No.	+-	+-	+-	+-	+-	+-	+-	+	+-	+-	+-	+-	+-	+-	+-	+-
Meter1	11774-1	8-11409 8-11990	0401	CT1	CT2 L2	CT3 L3	CT4	CT5	CT8	CT7	CT8	CT9 L3	CT 10		CT 12	CT13	CT14		CTIE
Meter2	11774-2	8-11996	0402		1	1.4	1000	44	13		12	LO	11	12	13	LI	12	13	111
		8-12003		Met	er1	Me	ter2	Met	er3	Me	ter4	Me	terð	Met	ter6	Met	er7	Met	Bret
Meter3	11774-3	8-12037	0403		100	28			entre			100000					- In-		
		8-13015		1 5				1000	ERCHIFE	的行用	meter C	an art a in	ic Mo	//elTen	a HPS	25A.298	FYTC		
Meter4	11774-4	8-13016 8-13289 8-14883	0404		AT (BOT	H SIDES		0	Ver.124	Volta	ge Ratin	g: 120 2	08/240V	AC Te	st Amp	36A-208 eres (TA	1: 30A		N
Meter4 Meter5	11774-4 11774-5	8-13289	0404 0405		ATIBOT	H SIDES		() Maximu	Ver.124 m.Ampi) Voltaj eres (C	ge Ratin (L); 200A	g: 120/2 Class:	08/240V 1.0 Wa	AC Te	st Amp Constar	eres (TA nt (Kh): 1): 30A 10 Wh	E CE	1 .
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		8-13289 8-14883 8-14884 8-14958 8-14958 8-14952			ATIBOT	H SIDES		(Maximu quency	Ver.124 m Ampi Rating) Voltaj eres (C (Hz): 50	ge Ratin (L): 200A 160 Hz B	g: 120/2 Class: BIL: 10K	08/240V 1.0 Wa V Regis	AC Te tt-hour (ter Ratio	st Amp Constar o (Rr) ar	eres (TA nt (Kh): 1 nd Multip): 30A 10 Wh olier: 1	TAGE	L
Meter5	11774-5	8-13289 8-14883 8-14884 8-14958	0405		ATIBOT	H SIDES		(Maximu quency	Ver.124 m Ampi Rating) Voltaj eres (C (Hz): 50	ge Ratin (L); 200A	g: 120/2 Class: BIL: 10K	08/240V 1.0 Wa V Regis	AC Te tt-hour (ter Ratio 1:0.1 A C	st Ampi Constai o (Rr) ar CT Burd	eres (TA nt (Kh): 1 nd Multip): 30A 10 Wh blier: 1 Nhms	AGE	L

MP-636 EXTC Identification Label

MP-636 INC Identification Label

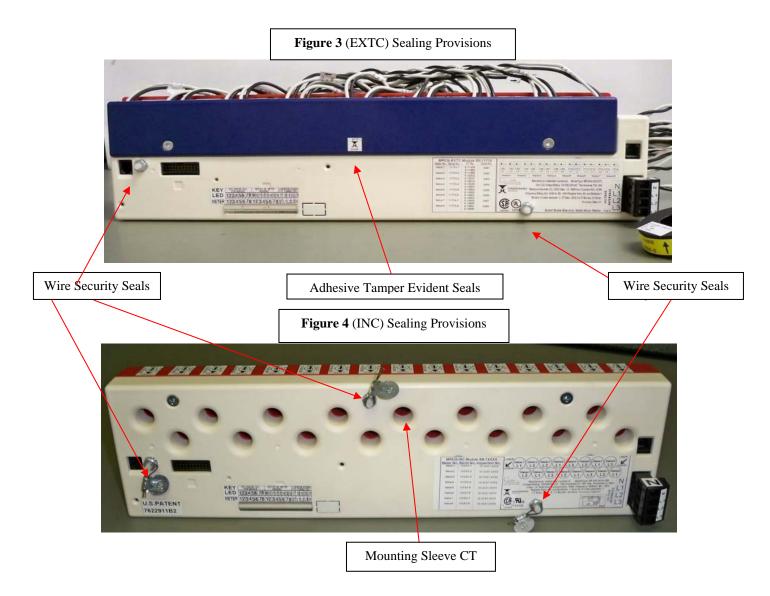
Meter No.	Serial No.	CT No.	Suite No.	✓ (Meter1) (Meter2) (Meter3) (Meter4) (Meter6) (Meter6) (Meter7) (Meter8) (Meter
Meter1	11772-1	1	0101	LOAD(W)
Meter2	11772-2	23	0102	(Meter 1) (Meter 2) (Meter 3) (Meter 4) (Meter 6) (Meter 6) (Meter 7) (Meter 8) (Meter 7) (Meter
Meter3	11772-3	4 5 6	0103	Manufacture: Intellimeter Canada Inc. Model Type: MP 636A-208 INC
Meter4	11772-4	7	0104	PORTINGTH SIDES (Ver.124) Voltage Rating: 120/208/240 VAC Test Amperes (TA): 30A
Meter5	11772-5	8 9 10	0105	Intellimeter Maximum Amperes (CL): 200 A Class: 1.0 Watt-hour Constant (Kh): 10 Wh
Meterő	11772-6	11	0106	Frequency Rating (Hz): 50.60 Hz BL: 10KV Register Ratio (Rr) and Multiplier: 1 8 L Number of meter elements: 2 CT Ratio: 200:01 A CT Burden: 20 Ohns
Meter7	11772-7	12 13 14	0107	Number of meter elements : 2 CT Ratio: 2000.1 A CT Burden: 20 Ohns S B L.
Meter8	11772-8	16 16	0108	Solid State Electric Watt-Hour Meter FWO
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Certificate Number: 5628-10 Page 3 of 4

Intellimeter Canada Inc. Electronic Watt-hour Meter Models: MP-636 Series

Sealing: There are no adjustable metrological components under the cover. The MP-636 EXTC can be sealed with two wire security seals. Also, one adhesive tamper evident seal can be placed over the center recessed screw of the CT terminal cover after installation as shown below. (See Figure 3)

The MP-636 INC can be sealed with three wire security seals as shown below. (See Figure 4)



Intellimeter Canada Inc. Electronic Watt-hour Meter Models: MP-636 Series

Operation:

LED INDICATORS

The MP-636 Series has LEDs located on each metering circuit board. Yellow LEDs (1-8) indicate reverse energy. Pulsating red LEDs (9-16) indicate energy consumption, (Meters 1-8). Flashing red meter status LED (17) indicates normal operation and configured green LEDs (18-20) indicate connected power. Green LED (21) indicates the meter unit is powered on.

		YEL	LOW	/ ON	I - C/	ALL I	FOR												GRE	EN-PC	WER
				SER	VICE					RE	D PUL	SE - N	1ETER	READ	DING		RED		CONNECTED		
LED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Meter	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	METER STATUS	L1	L2	L3	METER UNIT

19 20 2
L2L30

<u>**Test Conditions:**</u> Samples of each model meter and current transformers were submitted for evaluation. The meters were tested at the California Division of Measurement Standards (DMS) lab. After a throughput period of approximately 30 days the meters were retested. The meters were subjected to a combined total of over 210 tests from 3 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, 2009 Edition

Tested By: Matt Stevens (CA) 2009