



Bulletin

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Qualification of Electricity Meters for Lengthened Initial Reverification Period of 10 years

1.0 Purpose & Scope

The purpose of this bulletin is to officially communicate the electronic electricity meters that have been conditionally and unconditionally qualified for a 10-year initial reverification period pursuant to Measurement Canada specifications S-EG-01 and S-S-05, and to communicate those meters that no longer qualify for a lengthened initial reverification period.

2.0 References

2.1 *Electricity and Gas Inspection Act* (R.S. 1985, c. E-4), s. 12.

2.2 *Electricity and Gas Inspection Regulations* (SOR/86-131), ss. 3(1), s. 19.

2.3 Specification S-EG-01 - Electricity and Gas Meter Pattern Approval Applications - Quality and Measurement Reliability Information Requirements in Support of a Lengthened Initial Reverification Period

2.4 Specification S-S-05 - Performance Requirements Applicable to Meters Granted a Conditionally Lengthened Initial Reverification Period under S-EG-01

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3.0 Initial Reverification Period Tables

Table 1 - Electricity Meters Qualified for an Unconditional 10 year Initial Reverification Period

Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Itron	C1S (D, T, L and R model designations) CN1S (D, T, L and R model designations) CN1SX C1SX	AE-0920	1 element, 2 wire, single phase, 120 volts, 240 volt, 0.2-20, 0.25-100, 1.0-100 amperes, 60 Hz 1.5 element, 3 wire, single phase, 240 volts, 0.5-200, 2.0-200 amperes, 60 Hz 2 element, 3 wire, network, 120 volts, 0.5-200, 2.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.
Itron	Sentinel	AE-1132	1 element, 2 wire, single phase, 120 to 480 volts, 0.2-20 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120 to 480 volts, 0.5-200 amperes, 60 Hz 2 element, 3 wire, network and single phase, 120 to 480 volts, 0.5-200 amperes, 60 Hz 2 element, 3 wire, delta, 120 to 480 volts, 0.05-20, 0.5-200 amperes, 60 Hz 2.5 element, 4 wire, Wye or delta, 120 to 480 volts, 0.2-20, 0.5-200 amperes, 60 Hz 3.0 element, 4 wire, Wye or delta, 120 to 480 volts, 0.2-20, 0.375-150, 0.5-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
General Electric Co.	KV2c KV2c+ KV2e KV2n	AE-1059	<p>1 element, 2 wire, single phase, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>1.5 element, 3 wire, single phase, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>2 element, 3 wire, single phase, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>2 elements, 3 wire, network, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>2 elements, 3 wire, 120 to 480, 600 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>2 elements, 3 wire, delta, 120 to 480, 600 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p> <p>2.5 elements, 4 wire, Wye, 120 to 480 volts, 0.2-20 amperes, 60 Hz</p> <p>3 elements, 4 wire, Wye or delta, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz</p>	Unconditional 10 year initial reverification period for all meters.
General Electric Co.	I-210	AE-1342	<p>2 wire, single phase, 120, 240 volts, 0.2-20, 1.0-100 amperes, 60 Hz</p> <p>3 wire, single phase, 240 volts, 0.2-20, 1.0-100, 2.0-200 amperes, 60 Hz</p>	Unconditional 10 year initial reverification period for all meters.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Elster Metering	ALPHA 1 A1* A1D* A1T* *(L, A, Q, +) /(P, M, Z, S, A) Only model designations with '+' in the type designation.	AE-0541	2 elements, 3 wire, network, 96 to 528 volts, 0.1-20, 1.0-200 amperes, 60 Hz 2 elements, 3 wire, delta, 96 to 528 volts, 0.1-20, 1.0-200 amperes, 60 Hz 2.5 elements, 4 wire, Wye, 96 to 528 volts, 0.1-20, 1.0 -200 amperes, 60 Hz 3 elements, 4 wire, Wye or delta, 96 to 528 volts, 0.1-20, 1.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.
Elster Metering	ALPHA 1 A1K* A1R* *(L, A, Q, +) /(P, M, Z, S, A) Only model designations with '+' in the type designation.	AE-0580	2 elements, 3 wire, network, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz 2 elements, 3 wire, delta, 96 to 528 volts 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz 2 5 elements, 4 wire, Wye, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz 3 elements, 4 wire, Wye or delta, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.
Elster Metering	ALPHA 1 A1* A1D* A1T* A1K* A1R* *(L, A, Q, +) /(P, M, Z, S, A) Only model designations with '+' in the type designation.	AE-0601	1 element, 2 wire, single phase, 120 to 480, 240 volts, 0.1-20, 1.0-200 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120 to 480, 240 volts, 0.1-20, 1.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Elster Metering	ALPHA 3 A3K A3D A3T A3R /(Q, L, N, C, A) Model designations	AE-1168	1.5 elements, 3 wire, single phase, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-200 amperes, 60 Hz 2 elements, 3 wire, network, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-200 amperes, 60 Hz 2 elements, 3 wire, delta, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-200 amperes, 60 Hz 2.5 elements, 4 wire, Wye, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-200 amperes, 60 Hz 3 elements, 4 wire, Wye, 96 to 528 volts, 0.1-10, 0.1-20, 1.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Elster Metering	REX R1 RS R1SD	AE-1320	1 element, 2 wire, single phase, 120 to 240 volts, 0.1-20, 1.0-200 amperes, 60 Hz 1.5 elements, 3 wire, single phase, 120 to 240 volts, 0.1-20, 1.0-200 amperes, 60 Hz 2 elements, 3 wire, network, 120 to 240 volts, 0.1-20, 1.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.
Landis + Gyr Inc.	Focus ALF	AE-1356	1 element, 2 wire, single phase, 120, 240 volts, 0.1-10, 2.0-200 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120, 240 volts, 0.1-10, 2.0-200 amperes, 60 Hz 2 elements, 3 wire, network, 120 volts, 2.0-200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.
TRIACTA Power Technologies	POWERHA WK 6320	AE-1434	2 elements, 3 wire, single phase, network, 120 volts, 0.05 to 5 amperes, 2 to 200 amperes, 60 Hz 3 elements, 4 wires Wye, 120 volts, 0.05 to 5 amperes, 2 to 200 amperes, 60 Hz	Unconditional 10 year initial reverification period for all meters.

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Table 2 - Electricity Meters Qualified for a Conditional 10 year Initial Reverification Period
(Electronic electricity meters qualified for a conditional 10 year initial reverification period which are subject to additional testing prior to the end of the six year initial reverification period)

Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Landis + Gyr Inc.	RXS4e RXRS4e AXS4e AXLS4e AXRS4e	AE-0764	1 element, 2 wire, single phase, 120 to 480 volts, 0.1-10, 0.2-20, 2.0-200 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120 to 480 volts, 0.1-10, 0.2-20, 2.0-200 amperes, 60 Hz 2 elements, 3 wire, network or delta, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz 2.5 elements, 4 wire, Wye or delta, 120 to 480 volts, 0.2-20 amperes, 60 Hz 3 element, 4 wire, Wye or delta, 120 to 480 volts, 0.2-20, 2.0-200 amperes, 60 Hz	Conditional 10 year initial reverification period applicable to meters verified on or after January 1 st , 2007. Sampling in accordance to S-S-05 required prior to June 2013.
Landis + Gyr Inc.	Focus II ALF	AE-1559	1 element, 2 wire, single phase, 120, 240 volts, 0.1-10, 0.2-20, 2.0-200 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120, 240 volts, 0.1-10, 2.0-200 amperes, 60 Hz 2 elements, 3 wire, network, 120 volts, 2.0-200 amperes, 60 Hz	Conditional 10 year initial reverification period applicable to meters verified on or after January 1 st , 2008. Sampling in accordance to S-S-05 required prior to June 2014.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Elster Metering	REX2 R2S R2SD gREX	AE-1579	<p>1 element, 2 wire, single phase, 120, 240 volts, 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz</p> <p>1.5 elements, 3 wire, single phase, 120, 240 volts, 0.1-10, 0.1-20, 1.0-100, 1.0-200 amperes, 60 Hz</p> <p>2 elements, 3 wire, network, 120 volts, 1.0-200 amperes, 60 Hz</p> <p>2 element, 3 wire, delta, 600 volts, 1.0-200 amperes, 60 Hz</p> <p>gREX: 1 element, 2 wire, single phase, 120, 240 volts, 1.0-100 amperes, 60 Hz</p> <p>1.5 elements, 3 wire, single phase, 240 volts, 1.0-100 amperes, 60 Hz</p>	<p>Conditional 10 year initial reverification period applicable to meters verified on or after January 1st, 2008.</p> <p>Sampling in accordance to S-S-05 required prior to June 2014.</p>
Itron	CP1S (D, T, L and R model designations)	AE-1466	3 element, 4 wire, Wye or delta, 120 to 480 volts, 0.02-20, 0.5 -200 amperes, 60 Hz	<p>Conditional 10 year initial reverification period applicable to meters verified on or after January 1st, 2006.</p> <p>Sampling in accordance to S-S-05 required prior to June 2012.</p>

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Itron	CVSO (D and R model designations)	AE-1498	1.5 element, 3 wire, single phase, 240 volts, 0.5-200 amperes, 60 Hz	Conditional 10 year initial reverification period applicable to meters verified on or after January 1 st , 2007. Sampling in accordance to S-S-05 required prior to June 2013.
General Electric Co.	I-210+ I-210+n	AE-1517	2 wire, single phase, 120 volts, 0.2-20, 1.0-100 amperes, 60 Hz 3 wire, single phase, 240 volts, 0.2-20, 2.0-200 amperes, 60 Hz 2 element, 3 wire, network, 120 volts, 2.0-200 amperes, 60 Hz	Conditional 10 year initial reverification period applicable to meters verified on or after January 1 st , 2007. Sampling in accordance to S-S-05 required prior to June 2013.
Sensus Metering Systems Inc	iSA2 with Flexnet 530-X	AE-1611	2 wire, single phase, 120, 240 volts, 0.2-20, 1.0-200 amperes, 60 Hz 1.5 element, 3 wire, single phase, 120, 240 volts, 0.2-20, 1-200 amperes, 60 Hz 2 element, 3 wire, network, 120, 240 volts, 1-200 amperes, 60 Hz	Conditional 10 year initial reverification period applicable to meters verified on or after January 1 st , 2009. Sampling in accordance to S-S-05 required prior to June 2015.

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Table 3 - Electronic Electricity Meters that no longer Qualify for the Conditional 10 Year Initial Reverification Period

(Electronic electricity meters that no longer qualify for the conditional 10 year initial reverification period or have not completed the sampling as required in accordance with S-S-05)

Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Itron	Q1000	AE-0828	2 element, 3 wire, delta, 69, 120 volts, 0.05 -20 amperes, 60 Hz 2.5 element, 4 wire, Wye or delta, 69, 120 volts, 0.05 -20 amperes, 60 Hz 3 element, 4 wire, Wye or delta, 69, 120 volts, 0.05 -20 amperes, 60 Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2003.
Power Measurement Ltd.	ION 8300 8400 8500 8600	AE-0924	2 element, 3 wire, delta, 120 to 480 volts (L-L), 0.1-20, 0.05-20 amperes, 60 Hz 2.5 element, 4 wire, Wye, 69 to 277 volts (L-N), 0.1-20, 0.05-20 amperes, 60 Hz 3 element, 4 wire, Wye, 69 to 277 volts (L-N), 0.1-20, 0.05-20 amperes, 60 Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2003.
Power Measurement Ltd.	ION 6200 Siemens 9200	AE-1143	2 element, 3 wire, single phase, 69 to 347 volts (L-N), 0.1-10 amperes, 60 Hz 2 element, 3 wire, delta, 120 to 600 volts (L-L), 0.1-10 amperes, 60 Hz 3 element, 4 wire, Wye, 69 to 347 volts (L-N), 0.1-10 amperes, 60 Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2003.

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Manufacturer	Model(s)	Approval No.	Rating/Configuration	Applicability
Power Measurement Ltd.	ION 7550 7650 Siemens 9510 9610	AE-1484	3 element, 4 wire, Wye, 57 to 347 volts (L-N), 0.05-20 amperes, 60Hz 2 element, 3 wire, delta, 120 to 600 volts (L-L), 0.05-20 amperes, 60Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2003.
Power Measurement Ltd.	ION 8600	AE-1535	2 element, 3 wire, delta, 120 volts (L-L), 0.2-20 amperes, 25Hz 3 element, 4 wire, Wye, 120 volts (L-L), 0.2-20 amperes, 25Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2003.
Sensus Metering Systems Inc.	iCon iCon Flexnet 530-X iCon RadioRead 530-E MXU	AE-1145	Single phase, 3 wire, 120, 240 volts, 1-200 amperes, 60 Hz 2 element, 3 wire, network, 120, 240 volts, 1-200 amperes, 60 Hz	Conditional 10 year initial reverification period qualification suspended . Initial reverification period amended to 6 years , applicable to all meters verified on or after January 1 st , 2005.

4.0 Revision

4.1 The purpose of revision 2 was to clarify and reflect the change in references from Measurement Canada provisional specification PS-E-11 to specification S-EG-01. Revision 2 amends the scope to include meters that have been conditionally and unconditionally qualified to receive a 10 year initial reverification period, and meters that no longer qualify for a lengthened initial reverification period.

4.2 The purpose of revision 3 was to add AE-1320 to table 1 and include additional configurations for AE-1611 in table 2.

4.3 The purpose of revision 4 was to add additional ratings and or configurations for AE-1611 and AE-0764 in table 2.

4.4 The purpose of revision 5 was to add additional ratings and or configurations for the meters under AE-1517 and AE-1579 in table 2. Also, meters under AE-1145 are included in table 3 to indicate a suspension of the lengthened initial reverification period until sampling pursuant to S-S-05 is completed.

4.5 The purpose of revision 6 was to add AE-1356 to table 1.

4.6 The purpose of revision 7 is to add AE-1434 to table 1.

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5.0 Additional Information

For additional information regarding this bulletin, please contact the Senior Program Officer responsible for electricity measurement. For more information regarding Measurement Canada and its programs, visit our [web site](#).

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