Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 14/2/20
Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

PRI Model *i*-Credit 400 Electricity Meter

submitted by Secure Australasia Pty Ltd
258 Darebin Road
Fairfield VIC 3078.

In Certificate of Approval No 14/2/20 dated 13 January 2006;

1. The Condition of Approval referring to the review of the approval should be amended to read:

   "This approval becomes subject to review on 1 December 2015, and then every 5 years thereafter."

2. The following statement should be added (before the Conditions of Approval):

   "This approval has been granted with reference to document NMI M 6, *Pattern Approval and Initial Verification of Electricity Meter and Associated Transformers: Definitions, Metrological and Technical Requirements*, dated July 2004."

3. The FILING ADVICE should be amended by adding the following:

   "Notification of Change No 2 dated 14 July 2011

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

14/2/20
13 January 2006

Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

Certificate of Approval

No 14/2/20

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

PRI Model *i*-Credit 400 Electricity Meter

submitted by PRI - Polymeters Response International Limited
83 Northern Road
Heidelberg West VIC 3081.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 January 2011, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/20' and only by persons authorised by the submittor.

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It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

DESCRIPTIVE ADVICE

Pattern: approved 21 December 2005

- A PRI model *i*-Credit 400 single phase Class 1 static watt hour meter used to measure electrical energy.

Variant: approved 21 December 2005

1. Similar to the pattern but with certain different following features/functions.

Technical Schedule No 14/2/20 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/20 dated 13 January 2006
Technical Schedule No 14/2/20 dated 13 January 2006 (incl. Test Procedure)
Figure 1 dated 13 January 2006

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the National Measurement Regulations 1999.

14/2/20
13 January 2006

TECHNICAL SCHEDULE No 14/2/20

Pattern: PRI Model *i*-Credit 400 Electricity Meter

Submittor: PRI - Polymeters Response International Limited
83 Northern Road
Heidelberg West VIC 3081

1. Description of Pattern

A PRI model *i*-Credit 400 electronic single phase Class 1 direct connected static watt hour meter (Figure 1) used to measure electrical energy.

1.1 Field of Operation

- Number of phases 1
- Number of wires 2
- Reference frequency 50 Hz
- Reference ambient temperature ranges:
  - specified range of operation -10 to 60°C
  - limit range of operation -20 to 70°C
- Rated voltage 240 V AC
- Rated currents: Basic current, I_b 15 A
  Maximum current, I_{max} 100 A
- Accuracy index 1

1.2 Features/Functions

- 1 element.
- ANSI optical port.
- Single LED status display.
- Liquid crystal digital indicator having a maximum display of 99999.9 kW h.
- Up to 4 Time of Use (TOU) registers.
- Interval data logging.
- Bottom connect rectangular base.

1.3 Verification/Certification

Provision is made for the application of a verification/certification mark.

1.4 Sealing Provision

Provision is made for the calibration adjustments to be sealed by the application of mechanical seals as shown in Figure 1.

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1.5 Descriptive Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	...
Model designation	...
Serial number	...
Pattern approval mark	NMI 14/2/20
Number of phases	...
Number or wires	...
Reference frequency	... Hz
Temperature limits (if other than -10 to 60°C)	... to ...°C
Meter constant	...
Rated voltage	... AC
Rated currents:	I_b ... A
	I_{max} ... A
Accuracy index	...

2. Description of Variant 1

Model *i*-Credit 400 which is similar to the pattern but with the following features/ functions:

- Two elements.
- An RJ11 port.
- An RS232 port.
- Two potential-free output terminals.
- Two switchable controlled circuits with relays (31.5 A or 60 A).
- Optional ripple control receiver.

TEST PROCEDURE

Instruments tested for initial verification shall comply with the certificate of approval and technical schedule, and the maximum permissible errors for initial and subsequent verifications/certifications at the operating conditions in effect at the time of verification.

TESTS

1. AC Voltage Test - at initial verification only.
2. Running With No Load - at subsequent verifications/certifications.
3. Starting.
4. Accuracy.

Australian Government
National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 14/2/20
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

PRI Model *i*-Credit 400 Electricity Meter

submitted by Secure Australasia Pty Ltd
(formerly PRI - Polymeters Response International Limited)
now of 258 Darebin Road
Fairfield VIC 3078.

A. In Certificate of Approval No 14/2/20 dated 13 January 2006;

1. The DESCRIPTIVE ADVICE should be amended by adding the following to the description of the pattern:

"May also be known as 'Secure' instruments of the same model."

2. The FILING ADVICE should be amended by adding the following:

"Notification of Change No 1 dated 12 July 2009

B. In Certificate of Approval No 14/2/20 and its Technical Schedule both dated 13 January 2006, all references to the name and address of the submittor should be amended to read:

"Secure Australasia Pty Ltd
258 Darebin Road
Fairfield VIC 3078"

C. In Technical Schedule No 14/2/20 dated 13 January 2006;

1. Clause **1. Description of Pattern** should be amended by adding the following:

"May also be known as 'Secure' instruments of the same model."

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2. The text for the TEST PROCEDURE should be replaced by the following:

"Instruments tested for verification shall comply with the certificate of approval and technical schedule, and the maximum permissible errors for verifications at the operating conditions in effect at the time of verification.

TESTS

1. AC Voltage Test
2. Running With No Load
3. Starting
4. Accuracy"

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

FIGURE 14/2/20 – 1

PRI Model *i*-Credit 400 Electricity Meter