



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 14/2/5
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

Email Model A11 Electricity Meter

submitted by AMPY Email Metering
 60 O'Riordan Street
 Alexandria NSW 2015.

A. In Certificate of Approval No 14/2/5 and its Technical Schedule both dated 21 September 2001, all references to the name of the submitter should be amended to read:

 "Landis & Gyr Pty Ltd"

B. In Certificate of Approval No 14/2/5 dated 21 September 2001;

1. The DESCRIPTIVE ADVICE should be amended by adding the following after the bullet point:

 "May also be known as Landis & Gyr instruments of the same model."

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

 "Notification of Change No 1 dated 13 January 2009"

C. In Technical Schedule No 14/2/5 dated 21 September 2001, clause **1. Description of Pattern** should be amended by adding the following after the 1st paragraph:

 "May also be known as Landis & Gyr instruments of the same model."

NOTE: Approval 14/2/5 was cancelled in respect of new instruments as of 1 November 2007, however existing instruments may be repaired/refurbished (including re-branding as Landis & Gyr) after the cancellation date.

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

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.



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

Cancellation
Certificate of Approval No 14/2/5

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

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

Email Model A11 Electricity Meter

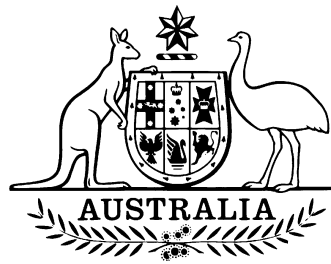
submitted by Email Metering
 (now AMPY Email Metering)
 now of 60 O’Riordan Street
 Alexandria NSW 2015

has been cancelled in respect of new instruments as from 1 November 2007.

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

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.

14/2/5
21 September 2001



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 14/2/5

Issued 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

Email Model A11 Electricity Meter

submitted by **Email Metering**
Joynton Avenue
Waterloo NSW 2017.

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 September 2006, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 14/2/5 and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission 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 the Commission's Document NSC P106.

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

DESCRIPTIVE ADVICE

Pattern: approved 13 August 2001

- An Email model A11 single phase Class 1 electronic watt hour meter used to measure electrical energy.

Variants: approved 13 August 2001

1. With alternative base.
2. With certain optional features.

Technical Schedule No 14/2/5 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/5 dated 21 September 2001
Technical Schedule No 14/2/5 dated 21 September 2001 (incl. Test Procedure)
Figures 1 and 2 dated 21 September 2001

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 14/2/5

Pattern: Email Model A11 Electricity Meter.

Submittor: Email Metering
Joynton Avenue
Waterloo NSW 2017.

1. Description of Pattern

An Email model A11 single phase Class 1 electronic direct connected multirate 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 -25 to 70°C
- Rated voltage 240 V AC
- Rated currents:
 - Basic current, I_b 2 x 10 A
 - Maximum current, I_{max} 100 A
 - Load current, L_m 100 A
 - Load current, L_1 31.5 A
 - Load current, L_2 100 A
 - N.B. $L_1 + L_2$ must not exceed 100 A
- Accuracy index 1

1.2 Features/Functions

- 2 elements
- 1 optical port
- 1 neutral terminal
- liquid crystal display

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.

1.5 Markings

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

Manufacturer's name or mark	...
Model designation	...
Serial number	...
Pattern approval mark	NSC No 14/2/5
Number of phases	...
Number of 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
	L_m ... A
	L_1 ... A
	L_2 ... A
	...
Accuracy index	...

2. Description of Variants

2.1 Variant 1

With an alternative plug in type base (Figure 2).

2.2 Variant 2

With any of the following options:

- 1 element
- 2 neutral terminals
- 1 RS232 or RS485 communications port
- 1 or 2 relays (31.5 A or 100 A rating, or one 31.5 A plus one 63 A rating)
- load profile memory
- boost button

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

The following tests shall be carried out in accordance with the Commission's document NSC M 6, *Pattern Approval and Initial Verification of Electricity Meters and Associated Transformers*.

1. AC Voltage Test - at initial verification only.
2. Running with no load - at subsequent verifications/certifications.
3. Starting.
4. Accuracy.

FIGURE 14/2/5 - 1



Email Model A11 Electricity Meter - Direct Connected Type Base

14/2/5
21 September 2001

FIGURE 14/2/5 - 2



Email Model A11 Electricity Meter - Plug In Type Base