



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 14/2/14

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 P1 Electricity Meter

submitted by Email Metering
 (now Landis & Gyr Pty Ltd)
 now of 60 O'Riordan Street
 Alexandria NSW 2015

has been cancelled in respect of new instruments as from 1 February 2009.

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.



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Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 14/2/14
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 P1 Electricity Meter

submitted by Email Metering
 Joynton Avenue
 Waterloo NSW 2017.

- A. In Certificate of Approval No 14/2/14 and its Technical Schedule both dated 27 May 2003, all references to the name and address of the submitter should be amended to read:

“Landis & Gyr Pty Ltd
60 O’Riordan Street
Alexandria NSW 2015.”

- B. In Certificate of Approval No 14/2/14 dated 27 May 2003;
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 14/2/14 dated 27 May 2003, 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 14/2/14 will be cancelled in respect of new instruments as of 1 February 2009, 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.

14/2/14
27 May 2003



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 14/2/14

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 Metering Model P1 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 May 2008, and then every 5 years thereafter. Instruments purporting to comply with this approval shall be marked NSC No 14/2/14 and only by persons authorised by the submittor.

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 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 8 April 2003

- An Email Metering model P1 single phase Class 1 electronic watt hour meter used to measure electrical energy.

Technical Schedule No 14/2/14 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/14 dated 27 May 2003
Technical Schedule No 14/2/14 dated 27 May 2003 (incl. Test Procedure)
Figure 1 dated 27 May 2003

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 14/2/14

Pattern: Email Metering Model P1 Electricity Meter

Submittor: Email Metering
Joynton Avenue
WATERLOO NSW 2017

1. Description of Pattern

An Email Metering model P1 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 15 A
Maximum current, I_{max} 100 A
- Accuracy index 1

1.2 Features/Functions

- 1 element
- 1 ANSI optical port
- liquid crystal display
- 1 LED pulse output
- Watt hour and end of interval pulse outputs
- 1 RS232 communications port
- internal clock and calendar with battery-backup
- multi-rate structure
- a load profile memory
- bottom connected

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 a mechanical seal (Figure 1).

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 14/2/14
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:	$I_b \dots A$ $I_{max} \dots A$
Accuracy index	1

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.

14/2/14
27 May 2003

FIGURE 14/2/14 – 1



Email Metering Model P1 Electricity Meter