



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval

NMI 14/2/47

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 instruments herein described.

Landis+Gyr Model E350 U1200 Class 1 Electricity Meter

submitted by Landis+Gyr
now of 241 O’Riordan Street
Mascot NSW 2020

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.

This approval has been granted with reference to document NMI M 6-1, *Electricity Meters, Part 1: Metrological and Technical Requirements*, July 2012.

This approval becomes subject to review on **1/12/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	16/11/09
1	Variant 1 approved – interim certificate issued	18/12/09
2	Pattern approved – certificate issued	26/04/10
3	Pattern reviewed & updated – certificate issued	17/08/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/47' 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 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.

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

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

A handwritten signature in black ink, appearing to read 'A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No 14/2/47

1. Description of Pattern **approved on 16/11/09**

A Landis+Gyr model E350 U1200 electronic single phase Class 1 direct connect static watt hour meter (Figure 1) used to measure electrical energy.

1.1 Field of Operation

The field of operation of the measuring system is determined by the following characteristics:

•	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
•	Reference voltage	240 V AC
•	Reference currents:	
	Basic current, I_b (1 or 2 elements)	10 A
	Maximum current, I_{max} (element 1)	100 A
	Maximum current, I_{max} (element 2)	40 A
•	Meter constant	1 Wh/imp
•	Accuracy class	1

1.2 Features/Functions

- One (1) or two (2) elements.
- Electronic (LCD) digital indicator.
- Active energy measurement (Class 1).
- Optional integrated load control relay (40 A).
- 100 A disconnect relay.
- AMI communications options including Mesh Radio.
- Bottom connect type base
- Internal crystal clock

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Provision is made for the calibration adjustments to be sealed by a solid state seal. The main cover is sealed by the application of one or more mechanical seals (Figures 1 and 2).

1.5 Descriptive Markings

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's name or mark	...
Model designation	...
Serial number	...
Pattern approval mark	NMI 14/2/47
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 (#)
Accuracy index	Class 1

(*) Optional marking.

(#) For both 1 and 2 elements.

TEST PROCEDURE

Instruments tested for initial 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.

Meters shall be verified in accordance with NITP 14 *National Instrument Test Procedures for Utility Meters*.

NOTE: NMI reserves the right to vary this procedure. Any such variation shall be notified in writing by NMI.

FIGURE 14/2/47 – 1



Landis+Gyr Model E350 U1200 Electricity Meter

FIGURE 14/2/47 – 2



Landis+Gyr Model E350 U1200 Electricity Meter
Including Typical Mechanical Sealing

~ End of Document ~