

Australian Government

Department of Industry, Innovation and Science



36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 14/2/78

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 Type U3400 Class 1 Electricity Meter

submitted by	Landis+Gyr Pty Ltd		
	Level 10, 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 1/10/19, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	19/09/14
1	Pattern amended (validity) – interim certificate issued	19/03/15
2	Pattern approved – certificate issued	3/06/15
3	Variant 1 approved – certificate issued	22/03/21

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/78' 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 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 Certificate 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*.

Darryl Hines Manager Policy and Regulatory Services

TECHNICAL SCHEDULE No 14/2/78

1. Description of Pattern

approved on 19/09/14

A Landis+Gyr model E350 Type U3400 polyphase class 1 direct connect static watt hour meter 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		3
•	Number of wires		4
•	Reference frequency		50 Hz
•	Reference ambient temperature ranges:		
	specified rar	nge of operation	-10 to 60°C
	limit range o	f operation	-20 to 70°C
•	Rated voltages:		3×230/400 V AC
			3×240/415 V AC
•	Rated currents:	Basic current, $I_{_{ m b}}$	10 A
		Maximum current, I_{max}	100 A
•	Meter constant		1 Wh/imp (#)
•	Accuracy class		1

(#) Various values may be applicable.

1.2 Features/Functions

- Three (3) elements
- Electronic (LCD) digital indicator
- Bottom connect rectangular base
- Internal synchronous and crystal clock
- Measurement in positive and negative direction

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Provision is made for the instrument to be sealed by the application of one or more mechanical seals (Figure 1).

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 14/2/78
Number of phases	
Number or wires	
Reference frequency	Hz
Meter constant	
Rated voltage	AC
Rated currents:	I _b A
	I _{max} A
Accuracy index	Class 1

2. Description of Variant 1

approved on 22/03/21

The pattern E350 Type U3400 modified with respect to safety requirements (Figure 2).

The variant has the same Field of Operation and Features and Functions as the pattern except for the following:

• Reference ambient temperature ranges:

-25 to 70°C

• Change in meter case design and colour

limit range of operation

• Change in the 9th character of the catalogue number to 'V', 'W', '3' or 'U' and included in meter markings.

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.

The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009* (Cth).

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

Evidence of verification shall be confirmed via the meter serial number and certificate of verification issued by a utility meter verifier in accordance with NITP 14.

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

FIGURE 14/2/78 – 1



Landis+Gyr model E350 Type U3400 (Pattern) incl. typical Mechanical Sealing

FIGURE 14/2/78 – 2

	-1
Landis, Gyr. 1 Wh/imp 1 varh/imp A B AS 62053.21 Cl.1 AS 62053.23 Cl.2 3X 230/400V 50Hz OVC IV 10(100)A UC3 Type: U3400 NMI 14/2/78 Cat. No. U3400DNNWNBS001LG - 2021 Property Of: Landis+Gyr TECT0001	

Landis+Gyr model E350 Type U3400 (Variant 1) incl. typical Mechanical Sealing

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