

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval NMI 14/2/115

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.

Itron model Gen5 Riva Electricity Meter

submitted by Itron Australasia Pty Ltd

8 Rosberg Road Wingfield SA 5013

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 *Active-Energy Electricity Meters*. *Part 1: Metrological and Technical Requirements*, June 2022.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	26/10/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/115' 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.

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

Dr Phillip Mitchell

Acting Manager

Policy and Regulatory Services

TECHNICAL SCHEDULE No 14/2/115

1. Description of Pattern

approved on 26/10/23

An Itron model Gen 5 Riva single phase Class 1 direct connected 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 -25 to 70 °C limit range of operation -25 to 70 °C Rated voltage 230 V AC

Rated currents: Basic current, I_b 5 A
 Maximum current, I_{max} 100 A

Meter constant 1000 imp/kWh
 Accuracy class 1

1.2 Features/Functions

- One (1) element
- Liquid crystal digital indicators having a maximum display of 999999 kWh.
- Synchronous and crystal internal clock
- Measurement in both positive and negative directions (export and import).

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

The meter is designed such that attempts to disassemble or mechanically access the meter cannot be made without causing visual damage. This includes the use of tamper-evident seals which seal two screws which fasten the meter cover to the meter base.

1.5 Descriptive Markings

Instruments are clearly and permanently marked with the following data, in the vicinity of the indicating device, in the form shown right:

NMI 14/2/115
Hz
to °C
AC
I _b A
$I_{\text{max}}\dots\dots A$

1.6 Harmonics

Instruments purporting to comply with this approval are suitable for use where the harmonics do not exceed those specified in NMI M 6-1:2022.

TEST PROCEDURE No 14/2/115

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.

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 14/2/115 - 1



Itron Gen 5 Riva single phase electricity meter (the pattern)

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