



Australian Government
Department of Industry,
Innovation and Science

**National
Measurement
Institute**

**Cancellation
Certificate of Approval
NMI 14/2/25A**

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
EDMI Model Mk7A Electricity Meter

submitted by EDMI Pty Ltd
 162 South Pine Road
 Brendale QLD 4500.

Has been cancelled in respect of new instruments as from 5th of July 2017.

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', written over a horizontal line.

Dr A Rawlinson



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 14/2/25A
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
EDMI Model Mk7A Electricity Meter

submitted by EDMI Pty Ltd
 162 South Pine Road
 Brendale QLD 4500

In Certificate of Approval No 14/2/25A dated 30 June 2010;

1. The Condition of Approval referring to the review of the approval should be amended to read:

‘This approval becomes subject to review on 1 December **2015**.’

Note: The review date must be 1 December 2015 as the meter was tested against the 1st edition of NMI document M6 dated July 2004 (rather than the current edition)

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

‘Notification of Change No 1 dated 16 August 2013’

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', written over a horizontal line.

Dr A Rawlinson



Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 14/2/25A

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

EDMI Model Mk7A Electricity Meter

submitted by EDM I Pty Ltd
162 South Pine Road
Brendale QLD 4500.

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, *Pattern Approval and Initial Verification of Electricity Meter and Associated Transformers: Definitions, Metrological and Technical Requirements*, July 2004.

CONDITIONS OF APPROVAL



This approval becomes subject to review on 1 November 2011, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/25A' 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.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 29 June 2010

- An EDM1 model Mk7A electronic single phase Class 1 direct connect static watt hour meter used to measure electrical energy.

Variant: approved 29 June 2010

1. With certain other features/functions.

Technical Schedule No 14/2/25A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval now comprises:

Certificate of Approval No 14/2/25A dated 30 June 2010
Technical Schedule No 14/2/25A dated 30 June 2010 (incl. Test Procedure)
Figure 1 dated 30 June 2010



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, consisting of stylized cursive letters, positioned to the right of the signature text.

TECHNICAL SCHEDULE No 14/2/25A

Pattern: EDM I Model Mk7A Electricity Meter

Submittor: EDM I Pty Ltd
162 South Pine Road
Brendale QLD 4500

1. Description of Pattern

An EDM I model Mk7A (*) electronic single phase Class 1 direct connect static watt hour meter (Figure 1) used to measure electrical energy.

(* - the full model number may have additional alphanumeric characters, e.g. the full model number may be in the form '7A10-A111-020-C211-A02-E000'. This number may also have a '2000-' prefix.)

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 10 A
Maximum current, I_{max} 100 A
 - Accuracy index 1
- (#) Instruments are approved for outdoor use.

1.2 Features/Functions

- One (1) element.
- ANSI Type 2 optical interface (AS1284.10 compliant).
- Liquid crystal digital indicator having a maximum display of 9999999.9 kW h.
- Export active energy measurement (Class 1).
- Eight (8) time-of-use registers.
- Load profiling memory (log intervals of from 1 to 60 minutes).
- Internal battery.
- Bottom connect rectangular base.

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 the application of a mechanical seal (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		14/2/25A
Number of phases	...		
Number or 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	Class		1

2. Description of Variant 1

With certain other optional features/functions including:

- Two (2) elements.
- Flag protocol and port.
- 100 A disconnect relay.
- 60 A load control relay.
- Two 2 A relays.
- RS 232 or RS 485 communications.
- Two input channels and one input/output channel (S0 when configured as output).

TEST PROCEDURE

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.

TESTS

1. AC Voltage Test
2. Running With No Load
3. Starting
4. Accuracy

FIGURE 14/2/25A – 1



EDMI Model Mk7A Electricity Meter