



Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 14/2/55

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 ATLAS Mk7B 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*, 2nd Edition, June 2010.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 August 2016, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/55' 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.

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 26 July 2011

- An EDM I model ATLAS Mk7B electronic single phase Class 1 direct connect static watt hour meter used to measure electrical energy.

Variant: approved 26 July 2011

1. With certain other features/functions.

Technical Schedule No 14/2/55 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval now comprises:

Certificate of Approval No 14/2/55 dated 27 July 2011
Technical Schedule No 14/2/55 dated 27 July 2011 (incl. Test
Procedure)
Figures 1 and 2 dated 27 July 2011

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



TECHNICAL SCHEDULE No 14/2/55

Pattern: EDM I Model ATLAS Mk7B Electricity Meter

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

1. Description of Pattern

An EDM I model ATLAS Mk7B (*) electronic single phase Class 1 direct connect static watt hour meter (Table 1 and 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 '7B10-A212-20-C211-0A02-0000'. 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 -25 to 60°C
 - limit range of operation -40 to 70°C (#)
- Rated voltage 220 to 240 V AC
- Rated currents: Basic current, I_b 5 or 10 A
Maximum current, I_{max} 100 A
- Accuracy class 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 999999.9 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.
- 100 A disconnect relay.
- 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 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 14/2/55
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 class	Class 1

2. Description of Variant 1

With certain other optional features/functions including:

- Flag protocol or ANSI protocol and port.

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 14/2/55 – 1



EDMI Model ATLAS Mk7B Electricity Meter

14/2/55
27 July 2011

FIGURE 14/2/55 – 2



Showing Typical Sealing