



Australian Government
Department of Industry,
Innovation and Science

**National
Measurement
Institute**

**Certificate of Approval
NMI 14/2/100**

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.

Montreaux Pty Ltd T/A MATelec Australia model FKW-15110 Class 1 Electricity Meter

submitted by Montreaux Pty. Ltd T/A MATelec Australia
8 Telford Drive
SHEPPARTON VIC 3630

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 **01/11/22**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	04/10/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/100' 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 S1/0B.

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 blue ink, appearing to be 'D Hines', written in a cursive style.

D Hines

TECHNICAL SCHEDULE No 14/2/100

1. Description of Pattern **approved on 04/10/17**

A Montreaux/MATelec Meters Limited model FKW-15110 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 3
- Reference frequency 50 Hz
- Reference ambient temperature ranges:
 - specified range of operation -20 to 65 °C
 - limit range of operation -20 to 70 °C
- Rated voltage 230 V AC
- Rated currents:
 - Basic current, I_b 10 A
 - Maximum current, I_{max} 100 A
- Meter constant 1000 imp/kWh
- Accuracy class 1

1.2 Features/Functions

- Liquid crystal digital indicators having a maximum display of 99999.9 kWh.
- DIN-rail mounting.

Note: The pattern is NOT fitted with an internal clock.

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Solid State Sealing only (Figure 1).

1.5 Descriptive Markings

Instruments are marked with the following data, together in one location:

Manufacturer's mark, or name written in full
Model designation
Serial number
Pattern approval mark	NMI 14/2/100
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 A
	I_{max} A
Accuracy class	...

TEST PROCEDURE No 14/2/100

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 14/2/100 – 1



MATElec FKW - 15110 1-phase meter side view

FIGURE 14/2/100 – 2



MATElec FKW - 15110 1-phase meter side view

FIGURE 14/2/100 – 3



MATElec FKW - 15110 1-phase meter top view

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