



Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 14/2/71

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.

EP&T Model Edge g6 MBC Electricity Meter

submitted by EP&T Pty Ltd
 358 Eastern Valley Way
 Chatswood NSW 2067

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use as a legal measuring instrument 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 1/12/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	22/11/13
1	Pattern & variant 1 approved – certificate issued	20/12/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/71' 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 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*.

A handwritten signature in black ink, appearing to be 'Dr A Rawlinson', written over a horizontal line.

Dr A Rawlinson

TECHNICAL SCHEDULE No 14/2/71

1. Description of Pattern

approved on 22/11/13

An EP&T model Edge g6 MBC class 0.2 electronic polyphase current transformer (CT) operated static watt hour meter (Table 1 and 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 3
- Number of wires 4
- Reference frequency 50 Hz
- Reference ambient temperature ranges:
 - specified range of operation -10 to 45°C
 - limit range of operation -20 to 55°C
- Rated voltage 230 V AC
- Rated currents:

Rated current, I_n	5 A
Maximum current, I_{max}	6 A
- Meter constant 1 Wh/imp
- Accuracy class 0.2

1.2 Features/Functions (refer also to Table 1)

- Three (3) elements
- Electronic (LCD) digital indicator
- Panel mount type housing

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Descriptive Markings and Notices

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 14/2/71
Number of phases	...
Number of wires	...
Reference frequency	... Hz
Meter constant	...
Rated voltage	... AC
Rated currents:	I_n ... A
	I_{max} ... A
Accuracy index	Class ...

1.5 Sealing Provision

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

2. Description of Variant 1

approved on 21/11/13

Certain other models of the EP&T model Edge g6 MBC *** series as listed in Table 1, where *** represents a suffix, e.g. the pattern is the model Edge g6 MBC.

TABLE 1 – *Approved Models/Features of the Edge g6 MBC *** Series*

Model: Edge g6 MBC ***		Nano	L2	L3
	Features			
Communication:	RS485	Y	Y	Y
	Ethernet	Y	Y	Y
	Ethernet gateway	N	Y	Y
Input/Output:	Digital input	N	N	6
	Digital output	2	2	6
	Analogue input	N	N	2
	Analogue output	N	N	2
Data Memory:	Number of days	7	60	140

TEST PROCEDURE No 14/2/71

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*.

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 14/2/71 – 1



EP&T Model Edge g6 MBC Electricity Meter
(Including Typical Mechanical Sealing)

~ End of Document ~