

Bradfield Road, West Lindfield NSW 2070

# Certificate of Approval No 14/2/52

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

Hexing Technology Model HXE12AT Class 1 Electricity Meter

submitted by Hexing Technology Pty Ltd

Unit 4, 45 Normanby Road Notting Hill VIC 3168.

**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*, June 2010.

#### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2015, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/52' 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 16 November 2010

 A Hexing Technology model HXE12AT electronic single phase Class 1 direct connect static watt hour meter used to measure electrical energy.

Technical Schedule No 14/2/52 describes the pattern.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/52 dated 17 November 2010 Technical Schedule No 14/2/52 dated 17 November 2010 (incl. Test Procedure) Figures 1 and 2 dated 17 November 2010

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 14/2/52

Pattern: Hexing Technology Model HXE12AT Class 1 Electricity Meter

**Submittor:** Hexing Technology Pty Ltd

Unit 4, 45 Normanby Road Notting Hill VIC 3168

# 1. Description of Pattern

A Hexing Technology model HXE12AT electronic single phase Class 1 direct connect static watt hour meter (Figures 1 and 2) 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 |
|   | Defended and to see a section of the |       |

Reference ambient temperature ranges:

specified range of operation -10 to 60°C limit range of operation -20 to 70°C

Rated voltage 240 V AC

Rated currents: Basic current, I<sub>b</sub> 10 A

Maximum current, I<sub>max</sub> 100 A

Accuracy index

#### 1.2 Features/Functions

- One (1) element
- Electronic (LCD) digital indicator
- Import and export active energy measurement
- Optical interface which is IEC compliant
- Load profile memory
- RF communications module
- Bottom connect type 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 one or more mechanical seals (Figures 1 and 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 Hexing Electrical Co Ltd

Model designation . Serial number .

Pattern approval mark NMI 14/2/52

Number of phases ...

Number or wires ...

Reference frequency ... Hz

Meter constant 1000 imp/kWh

 $\begin{array}{ccc} \text{Rated voltage} & \dots \text{ AC} \\ \text{Rated currents:} & I_{_{b}} \dots \text{ A} \\ & & I_{_{max}} \dots \text{ A} \end{array}$ 

Accuracy index Class 1

(\*) Optional marking.

### 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
- Starting
- 4. Accuracy



# FIGURE 14/2/52 - 2

