



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## Certificate of Approval

### No 14/2/165

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.

Satec Model PM172E Class 0.2 Electricity Meter

**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 does NOT permit the verification of new instruments. It does not become subject to review.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate & appendix 1 issued	8/03/13

#### CONDITIONS OF APPROVAL

##### General

This approval applies only to existing instruments in the field or held in stock.

Instruments may be relocated and reinstalled but shall not be altered in any way other than to replace damaged components with equivalent components.

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', with a horizontal line underneath.

Dr A Rawlinson

## TECHNICAL SCHEDULE No 14/2/165

### 1. Description of Pattern approved on 8/03/13

A Satec model PM172E polyphase class 0.2 current transformer (CT) operated static watt hour meter used to measure electrical energy.

#### 1.1 Field of Operation

The field of operation of the measuring system is determined by the following characteristics: (refer also to separate NMI document '14/2/165 Appendix 1 Satec – All Models')

- |   |                     |                            |          |
|---|---------------------|----------------------------|----------|
| • | Number of phases    |                            | 3        |
| • | Number of wires     |                            | Various  |
| • | Reference frequency |                            | 50 Hz    |
| • | Reference voltage   |                            | 690 V AC |
| • | Reference currents: | Basic current, $I_n$       | Various  |
|   |                     | Maximum current, $I_{max}$ | 5 A      |
| • | Accuracy Class      |                            | 0.2      |

#### 1.2 Markings

- |   |                      |              |
|---|----------------------|--------------|
| • | Meter constant value | 1000 imp/kWh |
|---|----------------------|--------------|

#### 1.3 Verification Provision

Provision is made for the application of a verification mark.

### 2. Description of Variant 1 approved on 8/03/13

The model numbers and field of operation of certain other models of Satec electricity meters are listed in the separate NMI document '14/2/165 Appendix 1 Satec – All Models' available on the NMI website.

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