



Bradfield Road, West Lindfield NSW 2070

## Certificate of Approval

### No 14/2/40

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

SchellCount Model EEM12-65A Class 1 Indoor Electricity Meter

submitted by        Ampere Electrical Manufacturing Co P/L  
                          168-176 High Street  
                          PRAHRAN    VIC    3181.

**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*, July 2004.

#### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 June 2014, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 14/2/40' 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 May 2009

- A SchellCount model EEM12-65A electronic single phase Class 1 direct connect indoor static watt hour meter used to measure electrical energy.

**Variant:** approved 26 May 2009

1. Having a current rating of 10(32) Amp.

Technical Schedule No 14/2/40 describes the pattern and variant 1.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/40 dated 24 March 2010  
Technical Schedule No 14/2/40 dated 24 March 2010 (incl. Test Procedure)  
Figures 1 and 2 dated 24 March 2010

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

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the bottom.

## TECHNICAL SCHEDULE No 14/2/40

**Pattern:** SchellCount Model EEM12-65A Class 1 Indoor Electricity Meter

**Submitter:** Ampere Electrical Manufacturing Co P/L  
168-176 High Street  
PRAHRAN VIC 3181

### 1. Description of Pattern

A SchellCount model EEM12-65A electronic single phase Class 1 direct connect indoor 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 2
- 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: Basic current,  $I_b$  10 A  
Maximum current,  $I_{max}$  65 A
- Accuracy index 1

#### 1.2 Features/Functions

- One (1) element.
- Electromechanical digital indicator.
- Active energy measurement (Class 1).
- DIN-rail type mounting

#### 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 one or more mechanical seals.

### 1.5 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 14/2/40
Number of phases	...
Number of wires	...
Reference frequency	... Hz
Temperature limits	-10 to 45°C
Meter constant	...
Rated voltage	... AC
Rated currents:	$I_b$ ... A
	$I_{max}$ ... A
Accuracy index	Class 1

Instruments shall carry a notice stating FOR INDOOR USE ONLY, or similar wording.

### 2. Description of Variant 1

Whilst there is no change in the meter approved as the pattern (current rating of 10(65) Amp), it may also be marked as having a current rating of 10(32) Amp (Figure 2).

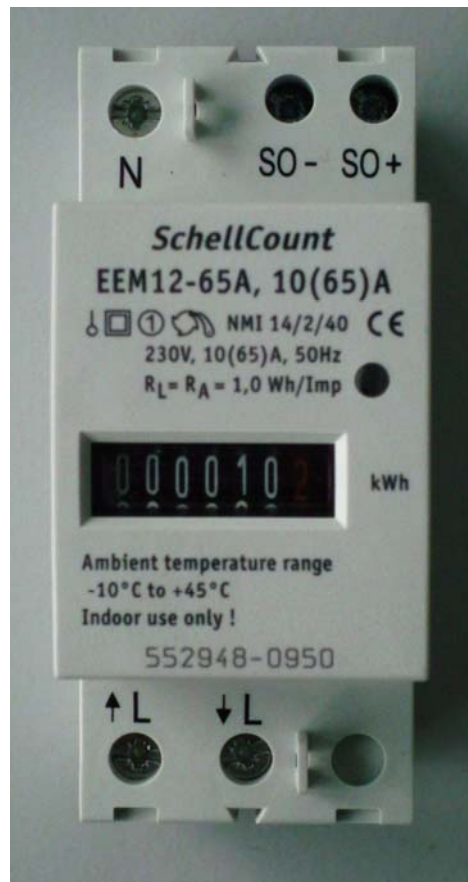
### TEST PROCEDURE

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 14/2/40 – 1



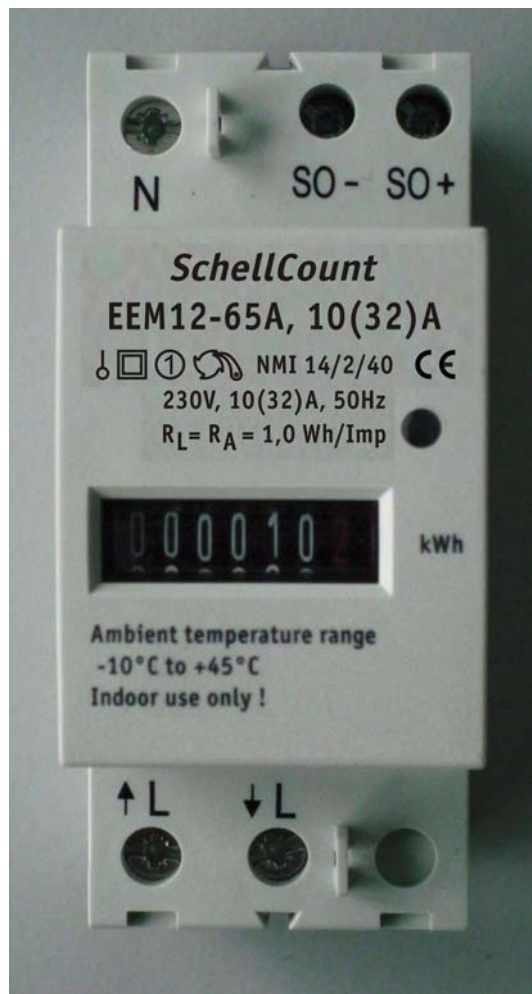
Front View



Side View

SchellCount Model EEM12-65A Electricity Meter

FIGURE 14/2/40 – 2



Front View

SchellCount Model EEM12-65A Electricity Meter  
(Having a current rating of 10(32) Amp – Variant 1)