



Australian Government
Department of Industry and Science

**National
Measurement
Institute**

Certificate of Approval

NMI 14/2/56

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.

Schneider Electric Model PowerLogic ION 8800 Electricity Meter

submitted by Schneider Electric (Australia) Pty Ltd
78 Waterloo Road
Macquarie Park NSW 2113

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 **1/09/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	18/08/11
1	Pattern and variant 1 reviewed – certificate issued	31/10/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/56' 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*.



Dr Amanda Rawlinson

TECHNICAL SCHEDULE No 14/2/56

1. Description of Pattern **approved on 18/08/11**

A Schneider Electric model PowerLogic ION 8800 electronic polyphase Class 0.2 current transformer (CT) operated 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 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 240 V AC
- Rated currents: Rated current, I_n 5 A
Maximum current, I_{max} 10 A
- Meter constant 1000 imp/kWh
- Accuracy class 0.2

1.2 Features/Functions

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

1.3 Descriptive Markings

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 14/2/56
Number of phases	...
Number or wires	...
Reference frequency	... Hz
Temperature limits	... to ...°C (*)
Meter constant	...
Rated voltage	... AC
Rated currents:	I_n ... A
	I_{max} ... A
Accuracy class	Class 0.2

(*) Optional marking.

1.4 Verification Provision

Provision is made for the application of a verification mark.

1.5 Sealing Provision

Provision is made for the instrument to be sealed by the application of one or more mechanical seals (Figure 2).

In addition, the password security restricting access to the SETUP menu must always be enabled. Refer to the Test Procedure.

2. Description of Variant 1

approved on 18/08/11

A Schneider Electric model PowerLogic ION 8800 meter having the same features/functions and field of operation as the pattern except that the rated current is 1 A.

TEST PROCEDURE


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.

The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009* (Cth).

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.

At subsequent verifications, check by the following steps that the password security restricting access to the SETUP menu is enabled.

- (a) Hold down the ALT/ENTER button  to access the SETUP menu.
- (b) Scroll through the menu items using the arrow buttons (above and below the ALT/ENTER button) and highlight SECURITY, and then press ALT/ENTER.
- (c) Check that you are prompted to enter a password, indicating that the password protection is enabled.
- (d) If the password protection is disabled, i.e. you will be able to access the SECURITY menu without entering a password, it must be enabled before verification.

NOTE: NMI reserves the right to vary this procedure. Any such variation shall be notified in writing by NMI.

FIGURE 14/2/56 – 1



3-PHASE 4-WIRE
In = 5 A
Imax = 10 A
CL0.2S
LED 1000 imp/kWh
LED 1000 imp/kVarh
Us = 240 Vac 50 Hz
TEMP: -10 to 45°C
NMI 14/2/56
2010
MN-1011A089-01

Schneider Electric Model PowerLogic ION 8800 Electricity Meter
(including sample markings)

FIGURE 14/2/56 – 2



Schneider Electric Model PowerLogic ION 8800 Electricity Meter
– Typical Mechanical Sealing

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