

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 14/2/87

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.

Schweitzer Engineering Laboratories Model SEL-735 Class 0.2 Electricity Meter

submitted by Schweitzer Engineering Laboratories Pty Ltd

98A Bell Street

Preston VIC 3072

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 is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

| Rev | Reason/Details | Date |
|-----|--|----------|
| 0 | Pattern approved – certificate issued | 17/09/15 |
| 1 | Pattern approved – amended Test Procedure reference to MPEs. | 10/02/17 |
| 2 | Variant 2 approved – certificate issued | 16/12/20 |
| | | |

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/87' 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.

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*.

Darryl Hines

Manager

Policy and Regulatory Services

TECHNICAL SCHEDULE No 14/2/87

1. Description of Pattern

approved on 17/09/15

A Schweitzer Engineering Laboratories model SEL-735 class 0.2 electronic current transformer (CT) operated static watt hour meter (Figures 1 and 3) 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 | 3 or 4 |
| • | Reference frequency | 50 Hz |

• Reference ambient temperature ranges:

specified range of operation -40 to 70°C limit range of operation -40 to 85°C Reference voltage 28 – 277 V AC

Meter constant
 1.8 kWh/imp

Accuracy class
 0.2

1.2 Features/Functions

- Electronic (LCD) digital indicator
- Internal crystal clock
- Measurement in positive and negative direction

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Provision is made for the instrument to be sealed by the application of 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 ...

Model designation ...

Serial number ...

Pattern approval mark NMI 14/2/87

Number of phases ...

Number or wires ...

Reference frequency ... Hz

Meter constant ...

Rated voltage ... AC

Rated currents: I, ... A

Accuracy index

I_{max} ... A Class 0.2

2. Description of Variant 1

approved on 16/12/20

A Schweitzer Engineering Laboratories model SEL-735 class 0.2 electronic current transformer (CT) operated static watt hour meter (Figure 4) used to measure electrical energy.

The variant has the same Field of Operation and Features and Functions as the pattern except for the following:

Colour touchscreen front panel

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.

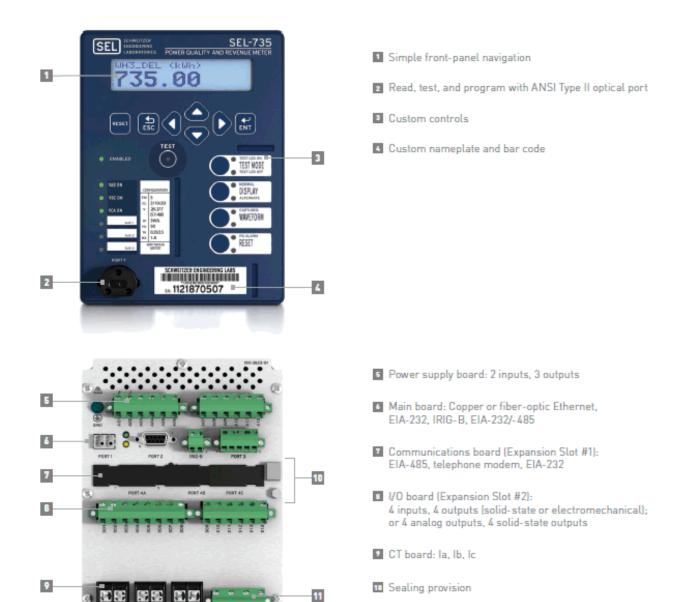
The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009* (Cth).

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.

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

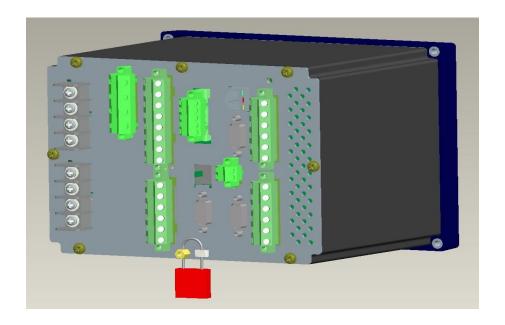
FIGURE 14/2/87 - 1



Schweitzer Engineering Laboratories Model SEL-735 Electricity Meter (Including Sealing Provision, item 10)

11 PT board: Va, Vb, Vc, Vn

FIGURE 14/2/87 – 2



Showing Typical Mechanical Sealing





Schweitzer Engineering Laboratories Model SEL-735 Electricity Meter

FIGURE 14/2/87 - 4



Schweitzer Engineering Laboratories Model SEL-735 Electricity Meter with colour touchscreen front panel

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