



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation Certificate of Approval No 6/4D/270

This is to certify that the approval for use for trade granted in respect of the

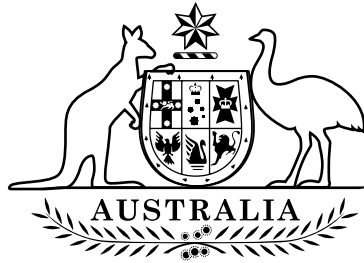
Teraoka Seiko Model SM-25 Weighing Instrument

submitted by W W Wedderburn Pty Ltd
 90 Parramatta Road
 Summer Hill NSW 2130

has been cancelled in respect of new instruments as from 1 January 2002.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



National Standards Commission

Certificate of Approval

No 6/4D/270

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

Teraoka Seiko Model SM-25 Weighing Instrument

submitted by W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 September 1999, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/270 and only by persons authorised by the submittor.

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 Commission 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 the Commission's Document 106.

The Commission 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 15 August 1994

- A Teraoka Seiko model SM-25 multi-interval self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Variants: approved 15 August 1994

1. Certain other models of the SM-25 series.
2. For use in a network.

Technical Schedule No 6/4D/270 describes the pattern and variants 1 & 2.

Variant: approved 15 October 1998

3. Model SM-25 BS.

Technical Schedule No 6/4D/270 Variation No 1 describes variant 3.

FILING ADVICE

Certificate of Approval No 6/4D/270 dated 27 October 1994 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/270 dated 30 November 1998

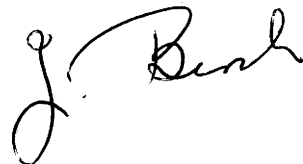
Technical Schedule No 6/4D/270 dated 27 October 1994 (incl. Test Procedure)

Technical Schedule No 6/4D/270 Variation No 1 dated 30 November 1998

Figure 1 dated 27 October 1994

Figure 2 dated 30 November 1998

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.





National Standards Commission

TECHNICAL SCHEDULE No 6/4D/270

Pattern: Teraoka Seiko Model SM-25 Weighing Instrument.

Submittor: W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

1. Description of Pattern

A Teraoka Seiko model SM-25 multi-interval self-indicating price-computing weighing and printing instrument (Figure 1) with a verification scale interval (e_1) of 0.002 kg up to 6 kg and with a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg. Instruments have unit price to \$9999.99/kg, price to \$9999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e_1$ whenever power is applied and whenever the instrument comes to rest within $0.5e_1$ of zero.

The instrument has a semi-automatic zero-setting device with a range of $\pm 4\%$ of the maximum capacity of the instrument.

The instrument has an initial zero-setting device with a range of not more than 20% of the maximum capacity of the instrument.

1.2 Prepack Mode

The instrument may be set to prepack mode by use of the PREPACK button, as indicated by the PREPACK annunciator being illuminated. (Refer also to clause 1.8 Markings.)

1.3 Tare

A semi-automatic taring device of up to 5.998 kg capacity may be fitted. In addition, the instrument incorporates a keyboard-operated pre-set tare device of the same capacity, which is accessible when in PREPACK mode or by which a tare value may be entered against an item in the price-look-up table (i.e. the instrument has a price and tare look-up facility).

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Levelling

The instrument is provided with adjustable feet and a level indicator.

1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.7 Sealing Provision

Instruments shall be sealed by placing a destructive adhesive label either over a casing retaining screw or across the join where the two casing-halves meet.

1.8 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/270
Accuracy class	III
Maximum capacity	Max / kg *
Minimum capacity	Min kg *
Verification scale interval	e = / kg *
Maximum subtractive tare	T = - kg

* Repeated adjacent to each reading face.

In addition, the instrument shall carry a notice advising that the INSTRUMENT IS NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC WHEN IN PREPACK MODE, or similar wording.

2. Description of Variants

2.1 Variant 1

Other models of the SM-25 series in various configurations (e.g. without column-mounted indicator, without PLU facility, without the alphanumeric display, without the label/ticket printer). Instruments may have a combination of certain alpha suffixes, viz. A, B, N, P and α .

2.2 Variant 2

A number of SM-25 series instruments may be connected in a network to share common PLU data, to transfer transaction data between instruments, and to retrieve management information.

Each individual instrument within the network has the facility for the transaction data to be entered into one of a number of operator memories, with a totalised ticket being produced at the end of a number of transactions. The ticket (or tickets) indicates each item in the transaction and the total price for the transaction.

The linking of these instruments in a network allows such transaction data to be transferred between instruments.

The network may include a number of Teraoka instruments which are Commission-approved for networking including any Teraoka SM series instruments. The network may include one of the following as the network controller, viz. SM-60, SM-60A, SM-25, or SM-70.

In addition, the network may be interfaced with a computer for the collection of management data and the downloading of PLU programming data.

NOTE: The weighing and price-computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate reverification of any other weighing instrument in the network.

TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

- The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e_1$ at no load, are:

$\pm 0.5e$ for loads from 0 to $500e$;
 $\pm 1.0e$ for loads over $500e$ up to $2000e$; and
 $\pm 1.5e$ for loads over $2000e$.

For multi-interval instruments with verification scale intervals of e_1, e_2, \dots , apply e_1 for zero adjustment and for maximum permissible errors apply e_1, e_2, \dots , as applicable for the load.

TECHNICAL SCHEDULE No 6/4D/270
VARIATION No 1

Pattern: Teraoka Seiko Model SM-25 Weighing Instrument.

Submittor: W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

1. Description of Variant 3

A Teraoka Seiko model SM-25BS multi-interval self-indicating price-computing weighing instrument (Figure 2) with a verification scale interval (e_1) of 0.002 kg up to 6 kg and with a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments are fitted with an integral label printer.

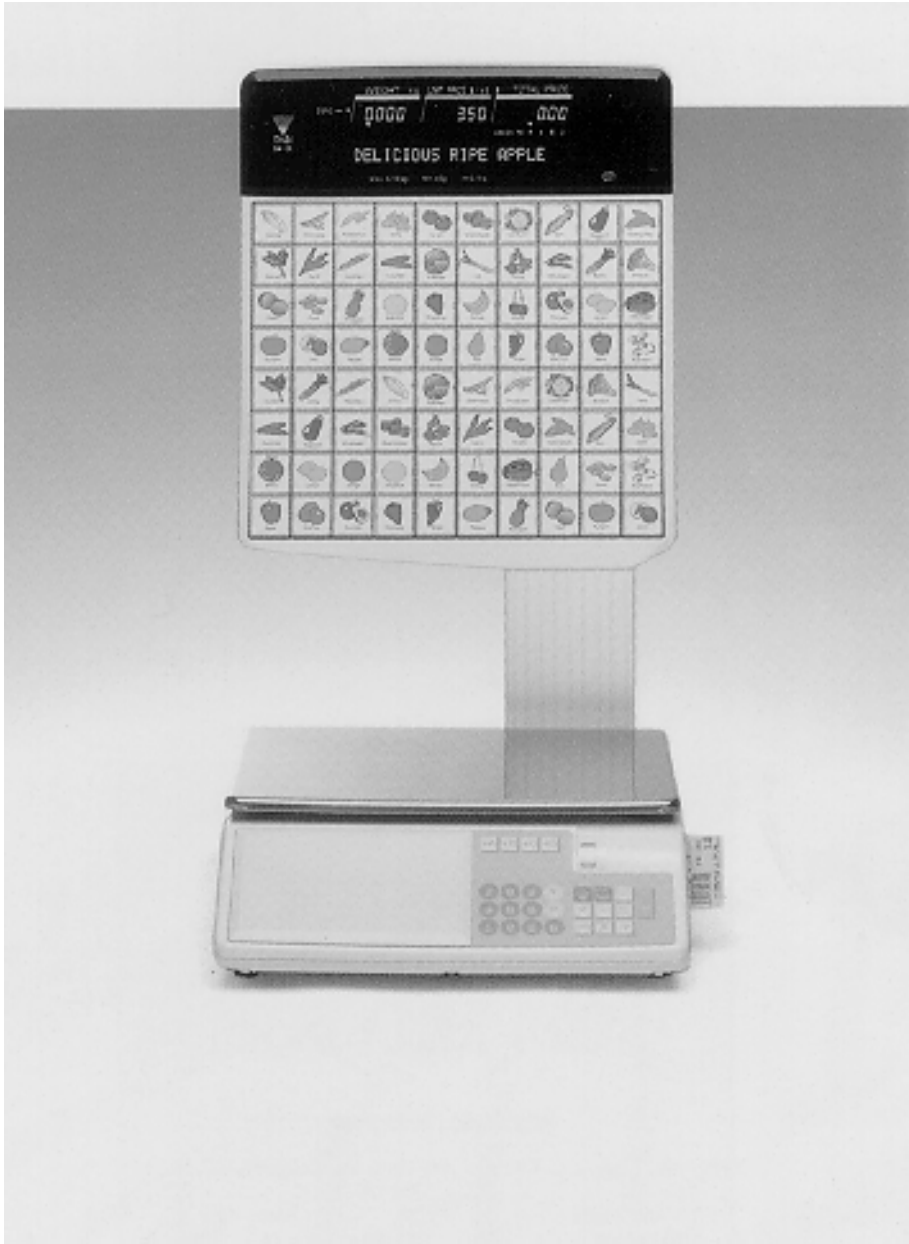
Instruments have unit price to \$9999.99/kg, price to \$9999.99, a price look up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

FIGURE 6/4D/270 - 1



Teraoka Seiko Model SM-25 Weighing Instrument

FIGURE 6/4D/270 - 2



Teraoka Seiko Model SM-25BS Weighing Instrument