

National Standards Commission



Certificate of Approval

No 6/4D/268

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 DS-650 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 is subject to review on or after 1/6/98.
This approval expires in respect of new instruments on 1/6/99.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/268 and only by persons authorised by the submitter.

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 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 25/5/93

- A Teraoka Seiko model DS-650 multi-interval self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Variants: approved 25/5/93

1. As multi-interval instruments of 6 kg and 30 kg maximum capacity.
2. As a single-interval instrument of 15 kg maximum capacity.
3. Displaying mass only.
4. With battery-powered operation.

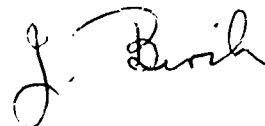
Technical Schedule No 6/4D/268 describes the pattern and variants 1 to 4.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/268 dated 23/7/93
Technical Schedule No 6/4D/268 dated 23/7/93 (incl. Test Procedure)
Figure 1 dated 23/7/93

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/268

Pattern: Teraoka Seiko Model DS-650 Weighing Instrument.

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

1. Description of Pattern

A Teraoka Seiko model DS-650 multi-interval self-indicating price-computing weighing 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 \$99999.99, 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 $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

The instrument has an initial zero-setting device with a nominal range of 5.3% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic taring device of up to 5.998 kg capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied or when the ON/OFF button is pressed.

1.4 Levelling

The instrument is provided with adjustable feet.

1.5 Verification/Certification Provision

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

1.6 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.

1.7 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/268 |
| Accuracy class | III |
| Maximum capacity | Max / kg * |
| Minimum capacity | Min g * |
| Verification scale interval | e = / g * |
| Maximum subtractive tare | T = - kg |

* Repeated adjacent to each reading face.

2. Description of Variants

2.1 Variant 1

As multi-interval instruments as listed below:

- With a verification scale interval (e_1) of 0.001 kg up to 3 kg and with a verification scale interval (e_2) of 0.002 kg from 3 kg up to the maximum capacity of 6 kg.

A semi-automatic taring device of up to 2.999 kg capacity may be fitted.

- With a verification scale interval (e_1) of 0.005 kg up to 15 kg and with a verification scale interval (e_2) of 0.010 kg from 15 kg up to the maximum capacity of 30 kg.

A semi-automatic taring device of up to 9.995 kg capacity may be fitted.

2.2 Variant 2

As a single-interval instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

2.3 Variant 3

Displaying mass only, i.e. without price-computing.

2.4 Variant 4

With battery-powered operation.

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 $\pm 0.25e$ 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.

FIGURE 6/4D/268 - 1



Teraoka Seiko Model DS-650 Weighing Instrument