



National Standards Commission
Cancellation
Certificate of Approval No 6/4C/75

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

Teraoka Seiko Model DS-640 Weighing Instrument

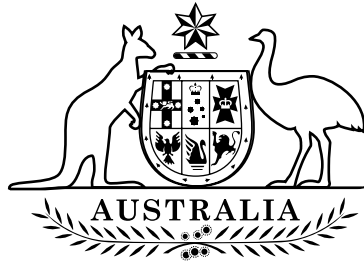
submitted by W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130

has been cancelled in respect of new instruments as from 1 April 2000.

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

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Burch', written in a cursive style.



National Standards Commission

Certificate of Approval

No 6/4C/75

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-640 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 October 1998, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/75 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 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 16 September 1992

- A Teraoka Seiko model DS-640 single-interval self-indicating weighing instrument of 15 kg maximum capacity.

Variants: approved 16 September 1992

1. In certain other capacities.
2. As multi-interval instruments of certain capacities.

Technical Schedule No 6/4C/75 describes the pattern and variants 1 & 2.

Variant: approved 14 September 1993

3. Of 9.995 kg maximum capacity.

Technical Schedule No 6/4C/75 Variation No 1 describes variant 3.

Variant: approved 12 February 1998

4. With a semi-automatic taring device.

Technical Schedule No 6/4C/75 Variation No 2 describes variant 4.

FILING ADVICE

Certificate of Approval No 6/4C/75 dated 22 November 1993 is superseded by this Certificate, and may be destroyed.

The documentation for this approval now comprises:

Certificate of Approval No 6/4C/75 dated 11 March 1998

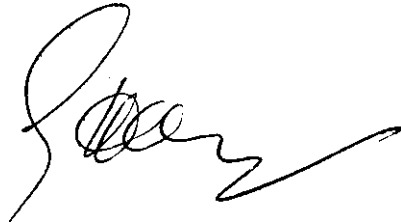
Technical Schedule No 6/4C/75 dated 17 November 1992 (incl. Test Procedure)

Technical Schedule No 6/4C/75 Variation No 1 dated 22 November 1993

Technical Schedule No 6/4C/75 Variation No 2 dated 11 March 1998

Figure 1 dated 17 November 1992

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.

A handwritten signature in black ink, appearing to be a stylized name, possibly 'John', written in a cursive style.



National Standards Commission

TECHNICAL SCHEDULE No 6/4C/75

Pattern: Teraoka Seiko Model DS-640 Weighing Instrument.

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

1. Description of Pattern

A Teraoka Seiko model DS-640 single-interval self-indicating weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.005 kg. Instruments 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 the instrument comes to rest within $0.5e$ of zero. If the instrument comes to rest outside that range but within the zero reset range, zero may be reset by pressing the zero button. The zero light illuminates whenever zero is within $\pm 0.25e$.

The instrument has an initial zero-setting device with a nominal range of 10% of the maximum capacity of the instrument.

1.2 Display Check

A display check is initiated whenever the DISPLAY button is pressed.

1.3 Markings

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/75
Accuracy class	III
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *

* Repeated in the vicinity of each reading face.

1.4 Verification/Certification Provision

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

1.5 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

2. Description of Variants

2.1 Variant 1

Of various capacities as listed below:

- Of 6 kg maximum capacity with a verification scale interval of 0.002 kg.
- Of 30 kg maximum capacity with a verification scale interval of 0.010 kg.

2.2 Variant 2

As multi-interval instruments of various capacities 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.
- 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.
- 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.

Instruments shall be marked with the 'Maximum capacity' and with the 'Verification scale interval' for both ranges, in addition to the other data required as specified in clause 1.3 **Markings**.

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.



National Standards Commission

TECHNICAL SCHEDULE No 6/4C/75

VARIATION No 1

Pattern: Teraoka Seiko Model DS-640 Weighing Instrument.

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

1. Description of Variant 3

A Teraoka Seiko model DS-640 single-interval self-indicating weighing instrument of 9.995 kg maximum capacity with a verification scale interval of 0.005 kg.

TECHNICAL SCHEDULE No 6/4C/75

VARIATION No 2

Pattern: Teraoka Seiko Model DS-640 Weighing Instrument.

Submittor: W W Wedderburn Pty Ltd
90 Parramatta Road
SUMMER HILL NSW 2130.

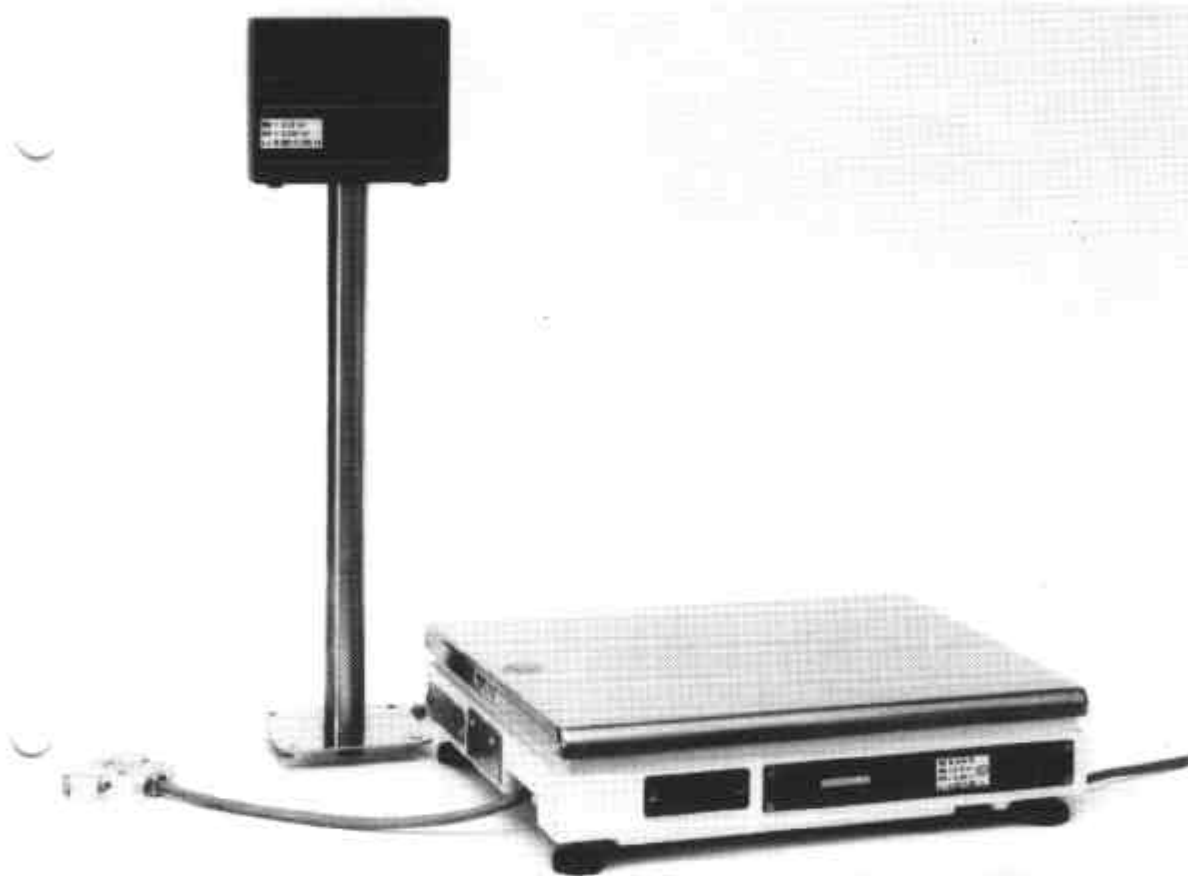
1. Description of Variant 4

With a semi-automatic subtractive taring device. The device has a capacity of up to 9.995 kg, with the capacity varying according to the maximum weighing capacity of the instrument.

On multi-interval instruments, the tare capacity does not exceed Max_1 , the capacity of the low range.

Instruments are marked for maximum subtractive tare in the form ' $T = -.... \text{ kg}$ ', in addition to the other data specified in clause **1.3 Markings** in Technical Schedule No 6/4C/75 dated 17 November 1992.

FIGURE 6/4C/75 - 1



Teraoka Seiko Model DS-640 Weighing Instrument