

National Standards Commission



Certificate of Approval

No 6/4D/253

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 DPS-2600 Series 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 1/10/93.
This approval expires in respect of new instruments on 1/10/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/253 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.

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

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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

DESCRIPTIVE ADVICE

Pattern: approved 20/9/88

- A Teraoka Seiko DPS-2600 series dual-interval self-indicating price-computing weighing and printing instrument of 15 kg maximum capacity.

Variants: approved 20/9/88

1. Displaying mass only.
2. With the weighing unit, indicator/console and printing unit in various alternative housings.

Variant: approved 30/11/88

3. Of 30 kg maximum capacity.

Technical Schedule No 6/4D/253 describes the pattern and variants 1 to 3.

Variant: approved 12/6/92

4. Of 6 kg maximum capacity.

Technical Schedule No 6/4D/253 Variation No 1 describes variant 4.

Variant: approved 6/8/93

5. As a single-interval instrument of certain capacities.

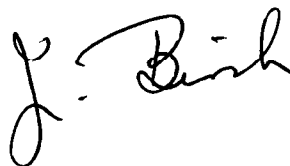
Technical Schedule No 6/4D/253 Variation No 2 describes variant 5.

FILING ADVICE

Certificate of Approval No 6/4D/253 dated 24/7/92 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/253 dated 6/9/93
Technical Schedule No 6/4D/253 dated 20/1/89 (incl. Test Procedure)
Technical Schedule No 6/4D/253 Variation No 1 dated 24/7/92
Technical Schedule No 6/4D/253 Variation No 2 dated 6/9/93
Figure 1 dated 20/1/89

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/253

Pattern: Teraoka Selko DPS-2600 Series Weighing Instrument.

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

1. Description of Pattern

The DPS-2600 is a dual-interval self-indicating price-computing label or ticket printing weighing instrument (Figure 1) with a verification scale interval of 0.002 kg up to 6 kg and with a verification scale interval of 0.005 kg from 6 kg up to the maximum capacity of 15 kg. The instrument is fitted with a price-look-up (PLU) facility, unit price to \$9999.99/kg and price to \$9999.99.

The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices. Instruments are fitted with a "touch-screen" display and may also be fitted with a journal printer for managerial functions only.

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 set within $0.25e$.

1.2 Display Check

A display check is initiated whenever power is applied to the instrument.

1.3 Tare

A semi-automatic taring device of up to 0.998 kg capacity may be fitted. In addition, the instrument incorporates a keyboard-operated digital tare facility, 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 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/253
Accuracy class	III
Maximum capacity	Max..... kg *
Minimum capacity	Min..... kg *
Low range: Maximum capacity	Max..... kg *
Verification scale interval	e = d =..... kg *
High range: Maximum capacity	Max..... kg *
Verification scale interval	e = d =..... kg *
Maximum subtractive tare	T = -..... kg

In addition, instruments are marked NOT FOR RETAIL COUNTER USE, NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

* Repeated in the vicinity of each reading face. /2

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; a similar notice may be located adjacent to the reading face.

1.6 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variants

2.1 Variant 1

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

2.2 Variant 2

Various models of the 2600 series (having a variety of prefixes and suffixes) with the weighing unit (load cell and mounting), indicator/console and printing unit in various housings and configurations, including as a "weigh-wrapper or labeller".

The Instrument may include any of the Commission-approved Teraoka Seiko baseworks of up to 30 kg capacity listed in the documentation of NSC approvals Nos 6/4D/237 and 6/9C/202.

2.3 Variant 3

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



TEST PROCEDURE No 6/4D/253

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104. The maximum permissible error applicable is that for the range in which the measurement is made, using the scale interval of the range.

The maximum permissible errors are:

- $\pm 0.5e$ for loads between 0 and 500e;
- $\pm 1.0e$ for loads between 501e and 2000e; and
- $\pm 1.5e$ for loads above 2000e.

1. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity. The device shall be capable of both negative and positive adjustments of at least one quarter of the zero adjustment range. With zero balance indicated apply a load of, say, 3.5% of maximum capacity and press the zero button; the instrument should not rezero.

2. Load Test (Dual-interval instruments)

Test loads are to be applied to the instrument in not less than 6 steps increasing to maximum capacity, followed by decreasing loads in not less than 6 steps to zero load. The loads should be selected such that there are 3 approximately equal steps in each range, but avoiding the changeover point of the ranges.



National Standards Commission

TECHNICAL SCHEDULE No 6/4D/253

VARIATION No 1

Pattern: Teraoka Seiko DPS-2600 Series Weighing Instrument.

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

1. Description of Variant 4

The model DPS-2600 as a dual-interval self-indicating price-computing label or ticket printing weighing instrument with a verification scale interval of 0.001 kg up to 3 kg and with a verification scale interval of 0.002 kg from 3 kg up to the maximum capacity of 6 kg.

A semi-automatic taring device of up to 0.999 kg capacity may be fitted. In addition, the instrument incorporates a keyboard-operated digital taring facility of the same capacity, 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).



National Standards Commission

TECHNICAL SCHEDULE No 6/4D/253

VARIATION No 2

Pattern: Teraoka Seiko DPS-2600 Series Weighing Instrument.

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

1. Description of Variant 5

The model DPS-2600 as a single-interval self-indicating price-computing label or ticket printing weighing instrument of various capacities as listed below:

Maximum capacity	kg	4	10	15	30
Verification scale interval	kg	0.002	0.005	0.005	0.010
Maximum tare capacity	kg	0.998	2.990	4.995	9.990

A semi-automatic and/or a keyboard-entered non-automatic taring device may be fitted.

The capacity of the taring device/s may be up to and including the values given above.

1.1 Sealing Provision

Provision is made for a destructive label to be placed either over a casing retaining screw or across the join of the casing halves.



NATIONAL STANDARDS COMMISSION

6/4D/253
11/5/89

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/253

CHANGE No 1

The following change is made to the approval documentation for the
Teraoka Selko DPS-2600 Series Weighing Instrument

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

In Technical Schedule No 6/4D/253 dated 20/1/89, add the following to clause
1.5 Levelling:

"The level indicator shall either be fixed to one side of the basework
(Figure 1) or may be visible through a transparent aperture in the
load receptor."

Signed

Executive Director

National Standards Commission



NOTIFICATION OF CHANGE CERTIFICATE OF APPROVAL No 6/4D/253 CHANGE No 2

The following change is made to the approval documentation for the

Teraoka Seiko DPS-2600 Series Weighing Instrument

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

In Certificate of Approval No 6/4D/253 dated 6 September 1993, the Condition of Approval referring to the expiry of the approval should be amended to now read:

"This approval expires in respect of new instruments on 1 October 1995."

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 read 'J. Bend'. The signature is written in a cursive style with a large initial 'J'.

FIGURE 6/40/253 - 1



Terooka Seiko Model DPS-2600