



# NATIONAL STANDARDS COMMISSION

6/4D/248

5/8/88

## NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

### REGULATION 9

#### CERTIFICATE OF APPROVAL No 6/4D/248

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

Teraoka Seiko DPS-6000Jr Series Weighing Instrument

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

#### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/7/93.

This approval expires in respect of new instruments on 1/7/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/248.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates Nos S1/0 and/or S2/0, as appropriate.

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

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 28/6/88

- A dual-interval self-indicating price-computing weighing and printing instrument of 15 kg maximum capacity.

Variants: approved 26/8/88

1. In various capacities as listed in Table 1.
2. With the weighing unit, indicator/console and printing unit in various alternative housings.
3. The pattern and variants with a facility to manually issue labels.

Technical Schedule No 6/4D/248 describes the pattern and variants 1 to 3.

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Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4D/248 dated 5/8/88  
Technical Schedule No 6/4D/248 dated 5/8/88 (incl. Table 1)  
Test Procedure No 6/4D/248 dated 5/8/88  
Figure 1 dated 5/8/88



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## TECHNICAL SCHEDULE No 6/4D/248

Pattern: Teraoka Seiko DPS-6000Jr Weighing Instrument.

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

### 1. Description of Pattern

The DPS-6000Jr is a dual-interval self-indicating price-computing label or ticket printing weighing instrument (Figure 1 and Table 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 15 kg. The instrument is fitted with a price-look-up (PLU) facility, unit price to \$999.99/kg and price to \$9999.99. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

Note: When a unit price is entered directly from the keyboard, it may be up to \$9999.99/kg.

#### 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/248
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.

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 is marked 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

In various capacities as listed in Table 1.

2.2 Variant 2

With the weighing unit (load cell and mounting), indicator/console and printing unit in various housings and configurations.

2.3 Variant 3

The pattern and variants with a facility to manually issue labels.

TABLE 1

Maximum capacity:	15 kg	30 kg	60 kg
Low range: Maximum capacity	6 kg	15 kg	30 kg
Verification scale interval	0.002 kg	0.005 kg	0.010 kg
High range: Maximum capacity	15 kg	30 kg	60 kg
Verification scale interval	0.005 kg	0.010 kg	0.020 kg
Maximum subtractive tare:	-0.998 kg	-9.95 kg	-9.90 kg
Basework model and capacity:	SA 15 kg	S-DK 30 kg	S-DK 60 kg S-BK 60 kg S-CK 60 kg
Load cell model:	LCK1250	RN31	RW60



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## TEST PROCEDURE No 6/4D/248

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:

- ± 0.5e for loads between 0 and 500e;
- ± 1.0e for loads between 501e and 2000e; and
- ± 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.



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## NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/248

### CHANGE No 1

The following change is made to the approval documentation for the  
Teraoka Seiko DPS-6000Jr Series Weighing Instrument

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

In Technical Schedule No 6/4D/248 dated 5/8/88, 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

FIGURE 6/40/248 - 1



Teraco Seiko Model DPS-6000 Jr