



NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/237

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 Model DPS-6000 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 1/1/91.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/237.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Signed

Acting Executive Director

Descriptive Advice

Pattern: approved 6/12/85

A dual-range self-indicating price-computing weighing and printing instrument with 0.002 kg scale intervals up to 6 kg and with 0.005 kg scale intervals from 6 kg up to the maximum capacity of 15 kg.

Variants: approved 6/12/85

1. In various capacities as listed in Table 1.
2. With the weighing unit, indicator/console and printing unit in various alternative housings.

Technical Schedule No 6/4D/237 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4D/237 dated 20/2/86
Technical Schedule No 6/4D/237 dated 20/2/86 (including Table 1)
Test Procedure No 6/4D/237 dated 20/2/86
Figures 1 to 4 dated 20/2/86



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/237

Pattern: Teraoka Seiko Model DPS-6000 Weighing Instrument

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

1. Description of Pattern

The DPS-6000 is a dual-range self-indicating price-computing label or ticket printing weighing instrument (Figure 1 and Table 1) with 0.002 kg scale intervals up to 6 kg and with 0.005 kg scale intervals 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 unit price is directly entered 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, in which a tare value may be entered against an item in the price-look-up table (ie the instrument has a price and tare look-up facility).

1.4 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	
Accuracy class	NSC No 6/4D/237
Maximum capacity	(III) Max 15 kg *
Minimum capacity	Min 0.04 kg *
Low range: Maximum capacity	Max 6 kg *
Verification scale interval	e = d = 0.002 kg *
High range: Maximum capacity	Max 15 kg *
Verification scale interval	e = d = 0.005 kg *
Maximum subtractive tare	T = -0.998 kg

In addition, the instrument is marked Not for Retail Counter Use.

* These markings are repeated close to the reading face if not already in that vicinity.

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, including the following:

- Model WP-6000: with the weighing unit in an alternative housing (Figure 2).
- Model IL-6000: with the printing unit and the indicator/console in separate housings and the weighing unit in a labelling system (Figure 3). The load receptor has a conveyor to move packages before and after static weighing. The label is applied by an air jet.
- Model AW-6000: similar to the model IL-6000 but with the weighing unit in a wrapping machine (Figure 4). The label may be applied by either the standard mechanical system or by an air jet.

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

TEST PROCEDURE No 6/4D/237

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 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 Test

As the automatic device resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will be 10e and 11e respectively.

2. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity (± 2% approximately). With zero balance indicated apply a load of, say 2.5% of maximum capacity to the instrument and press the zero button; the instrument should not rezero.

3. Load Test

Test loads are to be applied to the instrument in not less than 6 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 6 approximately equal 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.

4. Range of Indication

The maximum mass indicated should not exceed the marked maximum capacity by more than 10e; above this indicated mass the indication should be blank or show non-numerical characters.

5. Taring

A tare should not be able to be acquired above the marked tare capacity.

The semi-automatic tare function should be able to reset the mass indicator to zero within 0.25e at any load within its capacity. This may be checked as described for Zero Test.

When semi-automatic and digital tare are fitted together, either:

- (a) The selection of one will automatically cancel any previously entered tare, or
- (b) The operation of one will be inhibited once the other has been selected.



NATIONAL STANDARDS COMMISSION

6/4D/237
11/5/89

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/237

CHANGE No 1

The following change is made to the approval documentation for the

Teraoka Selko Model DPS-6000 Weighing Instrument

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

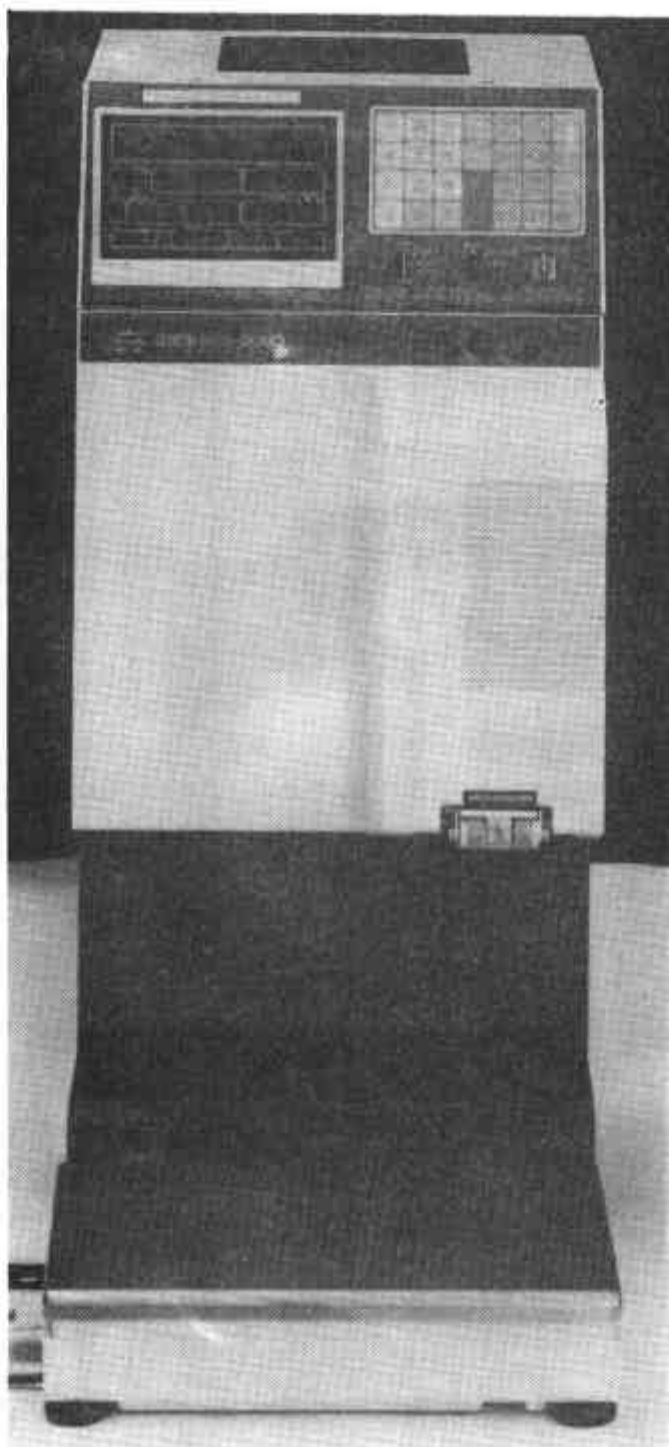
In Technical Schedule No 6/4D/237 dated 20/2/86, add the following to clause 1.5 Levelling:

"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 6/40/237 - 1



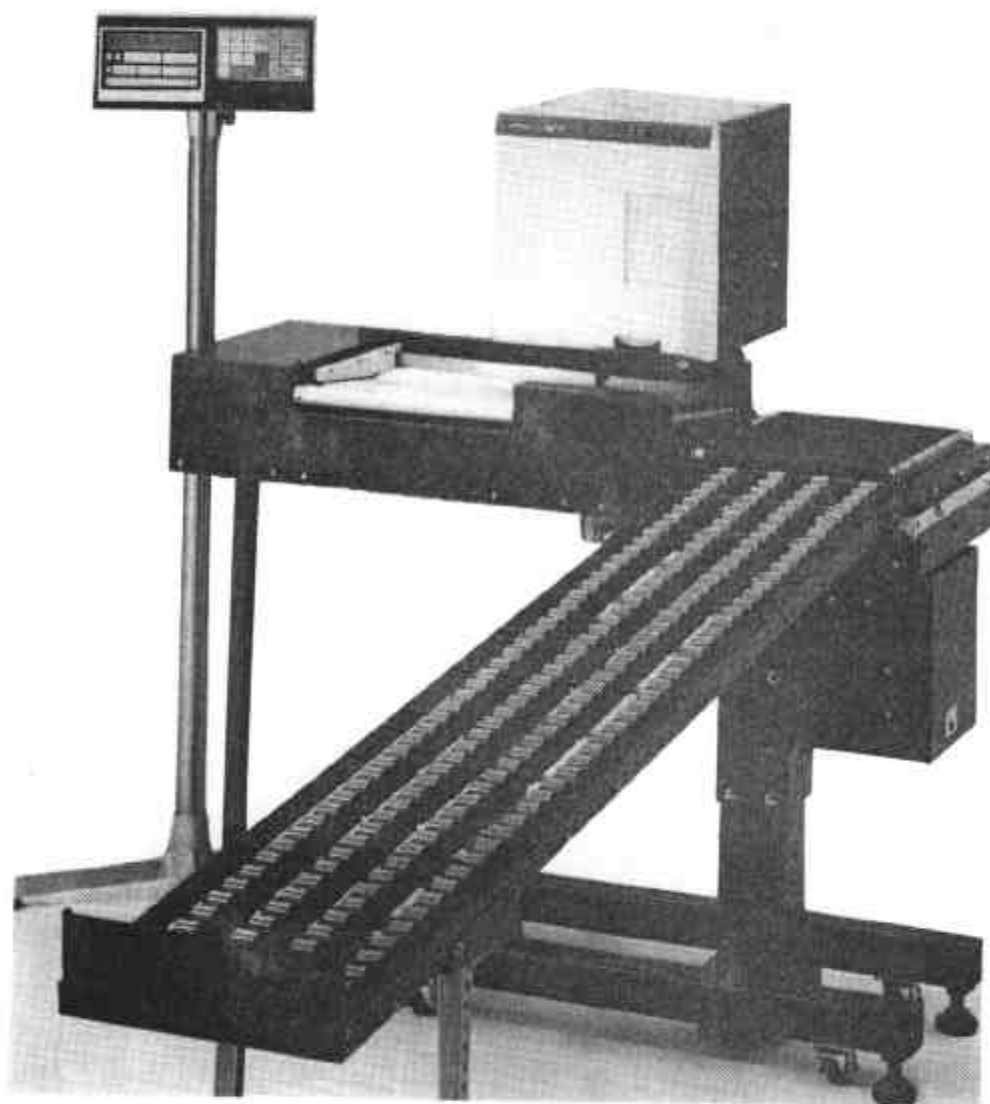
Terooko Seiko DPS-6000

FIGURE 6/40/237 - 2



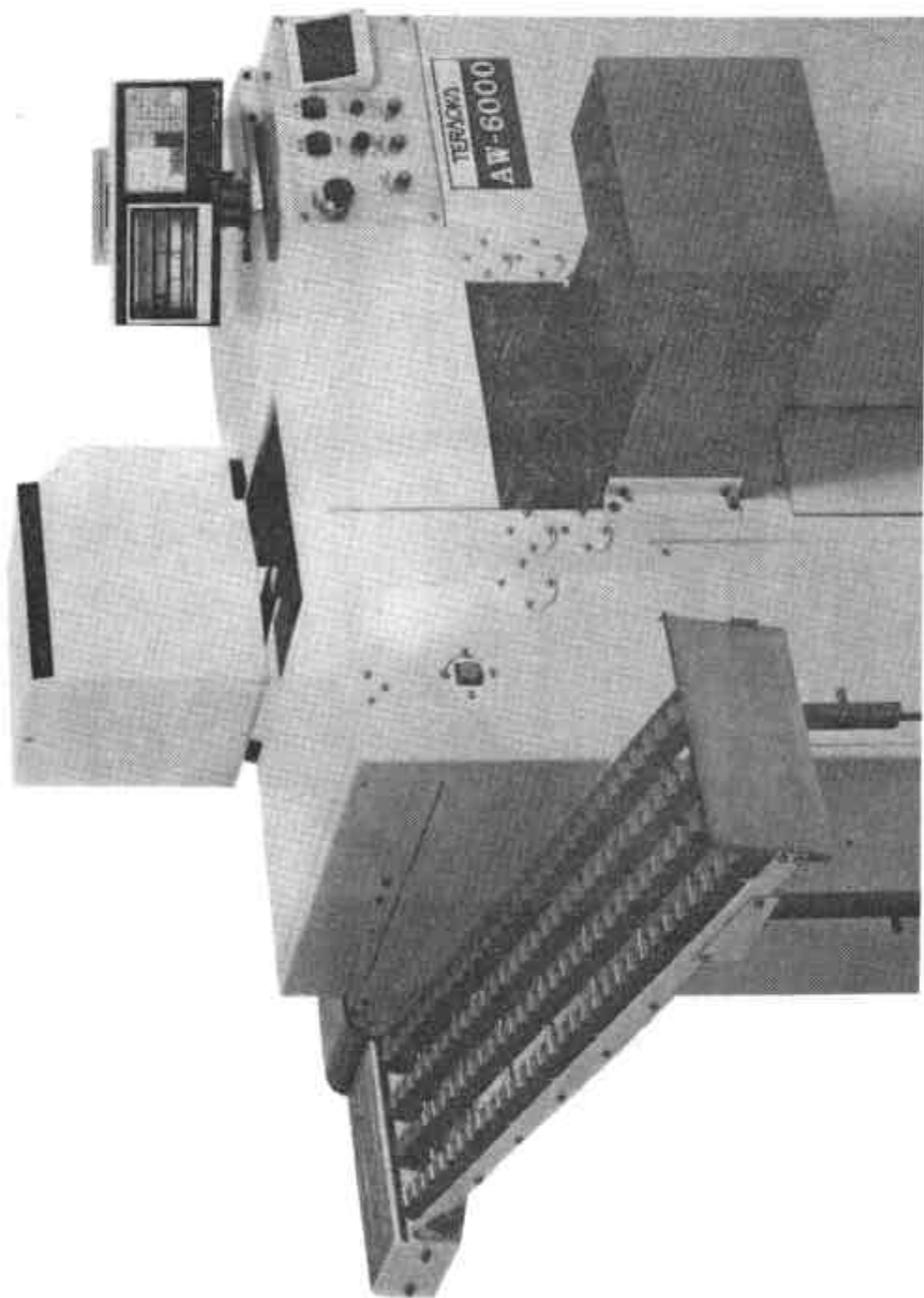
Model WP-6000

FIGURE 6/40/237 - 3



Model IL-6000

FIGURE 6/40/237 - 4



Model AW-6000