



NATIONAL STANDARDS COMMISSION
WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/215

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

Teraoka Digi Model DPS-1000 Price-computing Weighing and Labelling Instrument

submitted by J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, New South Wales, 2130

are suitable for use for trade.

The approval is subject to review on or after 1/1/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/215.

The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 3/12/82

- Teraoka Digi model DPS-1000 pre-packaging price-computing weighing instrument of 15 kg capacity by 0.005 kg scale intervals, with integral label printer.

Variant: approved 3/12/82

1. With the control console, load receptor and printer in separate housings, and known as a model DPS-2000.

Technical Schedule No 6/4D/215 dated 28/12/82 describes the pattern and variant 1.

Variant: approved 18/10/83

2. With other Commission-approved baseworks.

Technical Schedule No 6/4D/215 Variation No 1 dated 14/11/83 describes variant 2.

Filing Advice

Certificate of Approval No 6/4D/215 dated 28/12/82 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/215 dated 14/11/83
Technical Schedule No 6/4D/215 dated 28/12/82
Technical Schedule No 6/4D/215 Variation No 1 dated 14/11/83
Test Procedure No 6/4D/215 dated 28/12/82 (including Table 1)
Figures 1 and 2 dated 28/12/82

14/11/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/215

Pattern: Teraoka Digi Model DPS-1000 Price-computing Weighing And Labelling Instrument.

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

1. Description of Pattern

The pattern is a self-indicating price-computing weighing instrument with an integral label printer (Figure 1), for pre-packaging use.

Maximum capacity	15 kg
Scale interval	0.005 kg
Unit price	\$999.99/kg in 1c increments
Price	\$999.99 in 1c increments
Tare	995 g

1.1 Zero

The instrument is automatically corrected to zero within 0.25e when the button marked RESET is pressed. The indicator marked ZERO is illuminated whenever zero is within 0.25e.

1.2 Automatic Zero-correction Device

This device automatically rezeroes the instrument within 0.25e whenever it comes to rest within 0.5e of zero.

1.3 Tare

A semi-automatic subtractive taring device allows a mass on the receptor of up to 995 g to be tared within 0.25e, indicated by the NET light illuminating.

The tared mass is displayed in the tare mass indicator.

1.4 Display Check

When power is applied via the ON/OFF switch, all segments show 0's, all 1's to all 9's, and then all centre bars illuminate until the button marked RESET is pressed, whereupon the instrument rezeroes.

The RESET button may also be used to illuminate all 8's.

1.5 Levelling

A level indicator and four adjustable feet are provided. A notice adjacent to the level indicator aperture advises that the INSTRUMENT MUST BE LEVEL WHEN IN USE.

1.6 Marking

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/215
Accuracy class	(III)
Maximum capacity	Max ... kg*
Minimum capacity	Min ... kg*
Verification scale interval	e = d = ... kg*
Maximum subtractive tare	T = - ... g

In addition, the instrument is marked NOT FOR RETAIL COUNTER USE.

1.7 Sealing

- (a) The calibration adjustments are covered internally by a plastic box which has its mounting screws covered by a paper seal. Access may be gained to the paper seal for Weights and Measures purposes via an access cover on the side of the instrument (Figure 1).
- (b) A stamping plug is provided.

2. Description of Variant 1

With the control console, load receptor and printer in separate housings, and known as a model DPS-2000 (Figures 2 and 3). The printer may be in several configurations.

* These markings are repeated in the vicinity of each reading face.



NATIONAL STANDARDS COMMISSION

TEST PROCEDURE 6/4D/215

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:

- $\pm 0,5e$ for loads between 0 and 500e;
- $\pm 1e$ for loads between 501e and 2000e; and
- $\pm 1,5e$ for loads above 2000e.

1. Zero Range

Check that the range of the zero adjustment is not more than 4% of the maximum capacity ($\pm 2\%$ approximately). Satisfactory setting may be checked by the following method:

- (a) With zero balance indicated, apply a load of, say, 2.5% of maximum capacity to the instrument; it should not be possible to obtain zero by means of the zero adjustment.
- (b) Reduce the load to, say, 1.5%; it should then be possible to obtain zero by means of the zero adjustment.

2. Zero Test

- (a) Check by means of Document 104 that when the ZERO light illuminates, zero is set within 0.25e.
- (b) As the automatic zero tracking 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 then be 10e and 11e respectively.

3. Range of Indication

- (a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this indicated mass the indication should be blank.
- (b) The minimum mass indicated should be zero; below this the indication should be blank.

4. Taring

- (a) The tare function should reset the mass indicator to zero within 0.25e at any load within its tare capacity. This may be checked as described for Zero Test - 2(a).
- (b) Attempt to tare a mass above maximum tare capacity. On removal of the mass no tare should have been entered and the indicator should display all zeroes.

5. Test Loads

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps.

6. Price-computing Accuracy

The indications of mass, unit price and price listed in Table 1 will indicate that the price-computing and mass circuits are functioning correctly. The figures should be indicated exactly as in the table, as rounding is effected within the computer.

Note: This test does not establish correct mass indication; a separate load test in accordance with Document 104 is necessary. This may be carried out in conjunction with the above test.

<u>Table 1</u>		
<u>Indicated Mass</u>	<u>Unit Price</u>	<u>Total Price</u>
kg	\$/kg	\$
0,100	799.99	80.00
0,150	799.33	119.90
0,500	494.40	247.20
1,000	74.11	74.11
9,000	111.11	999.99
15,000	10.00	150.00

Price-computing Table



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/215

VARIATION No 1

Pattern: Teraoka Digi Model DPS-1000 Price-computing Weighing and Labelling Instrument

Submittor: J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, New South Wales, 2130.

1. Description of Variant 2

With other Commission-approved baseworks.

The number of scale intervals used shall be no greater than the number of verification scale intervals approved for the basework, up to a maximum of 3000 e.



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/215

CHANGE No 1

The following change is made to the description of the Teraoka Digi Model DPS-1000 Price-computing Weighing Instrument:

In Technical Schedule No 6/4D/215 dated 28/12/82, paragraph 1.4 Display Check,

Delete "via the ON/OFF switch" from the first line.

Signed

Executive Director

This change gives a more accurate description of the display check function of the instrument.

15/7/83

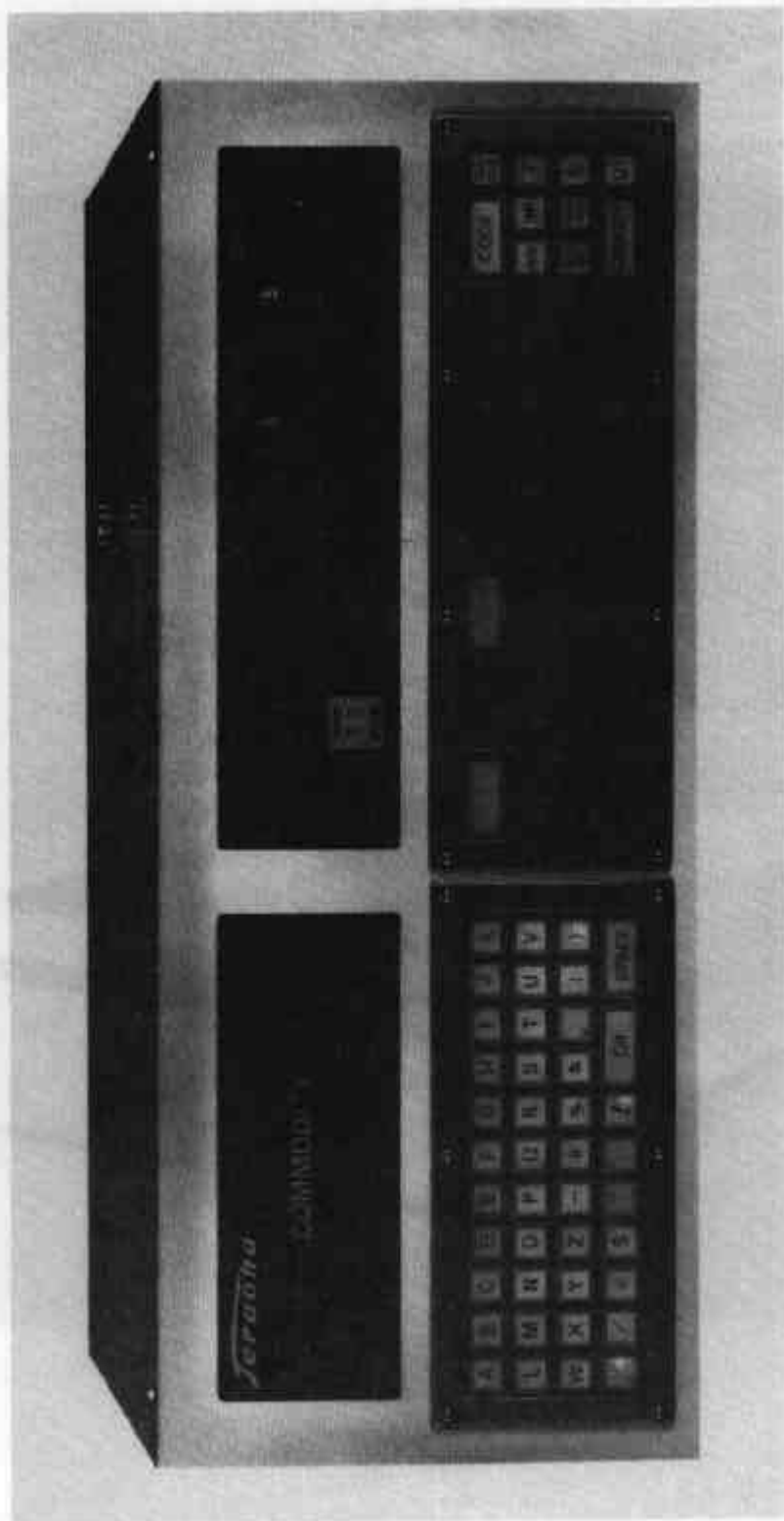
FIGURE 6/4D/215 - 1



Teraoka Digi DPS-1000

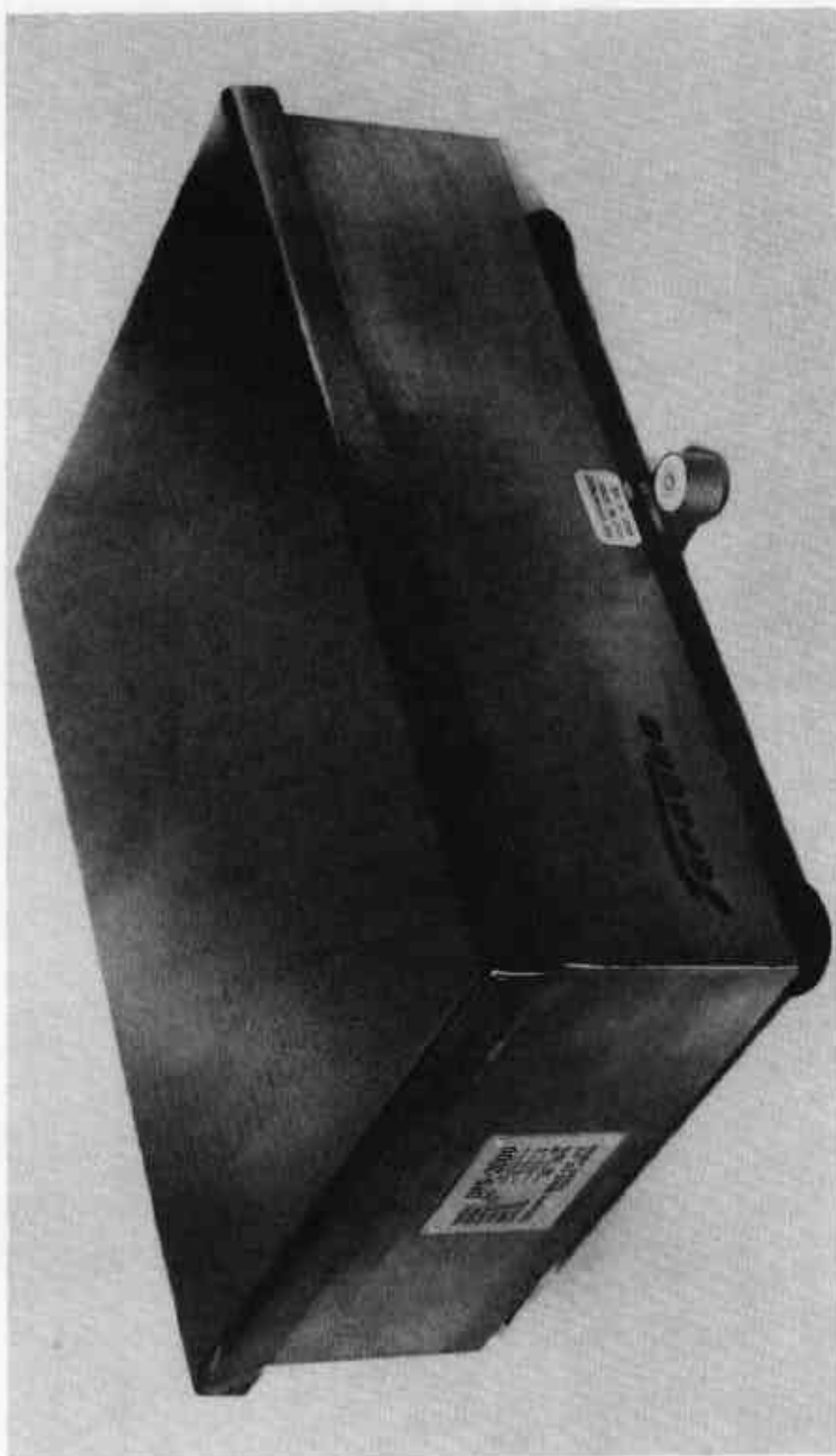
28/12/82

FIGURE 6/40/215 - 2



Teraoka Digi DPS-2000 Console

FIGURE 6/40/215 - 3



Teraoka Digi DFS-2000 Load Receptor

26/12/82