



**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

**Notification of Change
Certificate of Approval No 6/4D/283
Change No 2**

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

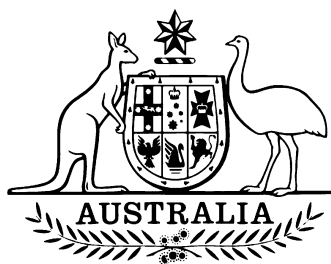
The following changes are made to the approval documentation for the
Teraoka Model DS-685 Weighing Instrument

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

In Certificate of Approval No 6/4D/283 dated 30 October 2000;

1. The Condition of Approval referring to the review of the approval should be amended to read:
 "This approval becomes subject to review on 1 June **2012**, and then every 5 years thereafter."
2. The FILING ADVICE should be amended by adding the following:
 "Notification of Change No 1 dated 17 October 2003
 Notification of Change No 2 dated 25 February 2008"

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/4D/283

Issued under Regulation 63
of the
National Measurement Regulations 1999

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

Teraoka Model DS-685 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 June 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/283 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.

DESCRIPTIVE ADVICE

Pattern: approved 7 May 1997

- A Teraoka model DS-685 self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4D/283 describes the pattern.

Variants: approved 14 April 1998

1. A model DS-688 weighing instrument of 15 kg maximum capacity.
2. A model DS-688F multi-interval weighing instrument of 30 kg maximum capacity.

Variants: approved 1 July 1999

3. A model DS-688 weighing instrument of 30 kg maximum capacity.
4. A model DS-688F multi-interval weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4D/283 Variation No 1 describes variants 1 to 4.

Variant: approved 7 February 2000

5. A model DS-688 weighing instrument displaying mass only.

Technical Schedule No 6/4D/283 Variation No 2 describes variant 5.

Variant: approved 3 December 1998

6. Model DC-688 weighing instrument of certain capacities.

Technical Schedule No 6/4D/283 Variation No 3 describes variant 6.

Variant: approved 9 October 2000

7. A model DMC-688 weighing instrument of certain capacities.

Technical Schedule No 6/4D/283 Variation No 4 describes variant 7.

FILING ADVICE

Certificate of Approval No 6/4D/283 dated 12 March 1999 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/283 dated 30 October 2000

Technical Schedule No 6/4D/283 dated 21 July 1997 (incl. Test Procedure)

Technical Schedule No 6/4D/283 Variation No 1 dated 15 July 1998 (incl. Notification of Change)

Technical Schedule No 6/4D/283 Variation No 2 dated 16 October 1998

Technical Schedule No 6/4D/283 Variation No 3 dated 12 March 1999 (incl. Table 1)

Technical Schedule No 6/4D/283 Variation No 4 dated 30 October 2000 (incl. Notification of Change)

Figure 1 dated 21 July 1997

Figures 2 and 3 dated 15 July 1998

Figure 4 dated 12 March 1999

Figure 5 dated 30 October 2000

Signed 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, consisting of a large, stylized initial 'P' followed by a series of loops and a long horizontal stroke extending to the right.

National Standards Commission

TECHNICAL SCHEDULE No 6/4D/283

Pattern: Teraoka Model DS-685 Weighing Instrument.

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

1. Description of Pattern

A Teraoka model DS-685 self-indicating price-computing weighing instrument (Figure 1) with a verification scale interval of 0.005 kg and a maximum capacity of 15 kg.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are either battery-operated, or powered by a 9 V supply.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive taring device of up to 7.495 kg maximum capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.5 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of destructible labels over the joins in the indicator casing on both sides, and also over the access hole on the underside of the indicator.

1.6 Levelling

Instruments are provided with adjustable feet and a level indicator.

1.7 Markings

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Maximum subtractive tare	T = - kg
Serial number of the instrument	
Pattern approval mark for the instrument	NSC No 6/4D/283

- * These markings shall also be shown near each reading face if they are not already located there.

TEST PROCEDURE

Instruments should be tested in accordance 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 on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5 e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5 e$ for loads $2\,000 < m \leq 10\,000$.

TECHNICAL SCHEDULE No 6/4D/283

VARIATION No 1

Pattern: Teraoka Model DS-685 Weighing Instrument.

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

1. Description of Variants

1.1 Variant 1

A model DS-688 self-indicating price-computing weighing instrument with a verification scale interval of 0.005 kg and a maximum capacity of 15 kg.

Instruments may be as shown in Figure 2, or with the displays mounted on a column.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are powered from mains supply or may be battery-operated.

A semi-automatic subtractive taring device of up to 7.495 kg maximum capacity may be fitted.

1.2 Variant 2

A model DS-688F multi-interval self-indicating price-computing weighing instrument with a verification scale interval (e_1) of 0.005 kg up to 15 kg and a verification scale interval (e_2) of 0.010 kg from 15 kg up to the maximum capacity of 30 kg.

Instruments may be fitted with integral displays, or with the customer display mounted on a column as shown in Figure 3.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are powered from mains supply or may be battery-operated.

A semi-automatic subtractive taring device of up to 9.995 kg maximum capacity may be fitted.

Instruments are marked in accordance with clause **1.7 Markings** in Technical Schedule No 6/4D/283 dated 21 July 1997, except for the following:

Maximum capacity	Max/..... kg *
Verification scale interval	e =/..... kg *

..../2

1.3 Variant 3

A model DS-688 self-indicating price-computing weighing instrument with a verification scale interval of 0.010 kg and a maximum capacity of 30 kg.

Instruments may be fitted with integral displays, or with the displays mounted on a column.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are powered from mains supply or may be battery-operated.

A semi-automatic subtractive taring device of up to 14.99 kg maximum capacity may be fitted.

1.4 Variant 4

A model DS-688F multi-interval self-indicating price-computing weighing instrument with a verification scale interval (e_1) of 0.002 kg up to 6 kg and a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments may be fitted with integral displays, or with the customer display mounted on a column.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are powered from mains supply or may be battery-operated.

A semi-automatic subtractive taring device of up to 5.998 kg maximum capacity may be fitted.

Instruments are marked in accordance with clause **1.7 Markings** in Technical Schedule No 6/4D/283 dated 21 July 1997, except for the following:

Maximum capacity	<i>Max</i>/..... kg *
Verification scale interval	<i>e</i> =/..... kg *

NOTIFICATION OF CHANGE

In the Test Procedure included as part of Technical Schedule No 6/4D/283 dated 21 July 1997, the following should be added:

For multi-interval instruments with verification scale intervals of e_1 , e_2 , ..., apply e_1 for zero adjustment, and for maximum permissible errors apply e_1 , e_2 , ..., as applicable for the load.

TECHNICAL SCHEDULE No 6/4D/283

VARIATION No 2

Pattern: Teraoka Model DS-685 Weighing Instrument.

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

1. Description of Variant 5

Any capacity model 688 of this approval, with the price-computing facility disabled, so that the instrument displays mass only.

TECHNICAL SCHEDULE No 6/4D/283

VARIATION No 3

Pattern: Teraoka Model DS-685 Weighing Instrument.

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

1. Description of Variant 5

The model DC-688 (Figure 4) in certain capacities as listed in Table 1.

Instruments are fitted with a single integral display and a pre-set tare facility. Instruments display mass only.

Instruments may also be fitted with a counting function which is not for trade use.

Instruments carry a notice stating NOT FOR RETAIL COUNTER USE, or similar wording.

TABLE 1

Maximum Capacity	Verification Scale Interval	Pre-set Tare Capacity
6 kg	2 g	2.998 kg
15 kg	5 g	7.495 kg
30 kg	10 g	14.99 kg

TECHNICAL SCHEDULE No 6/4D/283
VARIATION No 4

Pattern: Teraoka Model DS-685 Weighing Instrument.

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

1. Description of Variant 7

The model DMC-688 weighing instrument (Figure 5) which has the same capacities and similar features as the model DC-688 described in Variant 6.

Instruments may be fitted with a coin counting function which is not approved for trade use.

Instruments carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

NOTIFICATION OF CHANGE

- A. In Technical Schedule No 6/4D/283 dated 21 July 1997, clause **1.6 Levelling** is amended by replacing the text with the following wording:

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

- B. In Technical Schedule No 6/4D/283 Variation No 3 dated 12 March 1999, the heading **1. Description of Variant 5** should be amended to read:

“1. Description of Variant 6”



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Notification of Change

Certificate of Approval No 6/4D/283

Change No 1

The following change is made to the approval documentation for the

Teraoka Model DS-685 Weighing Instrument

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

In Certificate of Approval No 6/4D/283 dated 30 October 2000;

The Condition of Approval referring to the review of the approval should be amended to read:

“This approval becomes subject to review on 1 June 2007, and then every 5 years thereafter.”

Signed by a person authorised under Regulation 60 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 be 'J. H. C.', written over a light-colored rectangular background.

FIGURE 6/4D/283 - 1



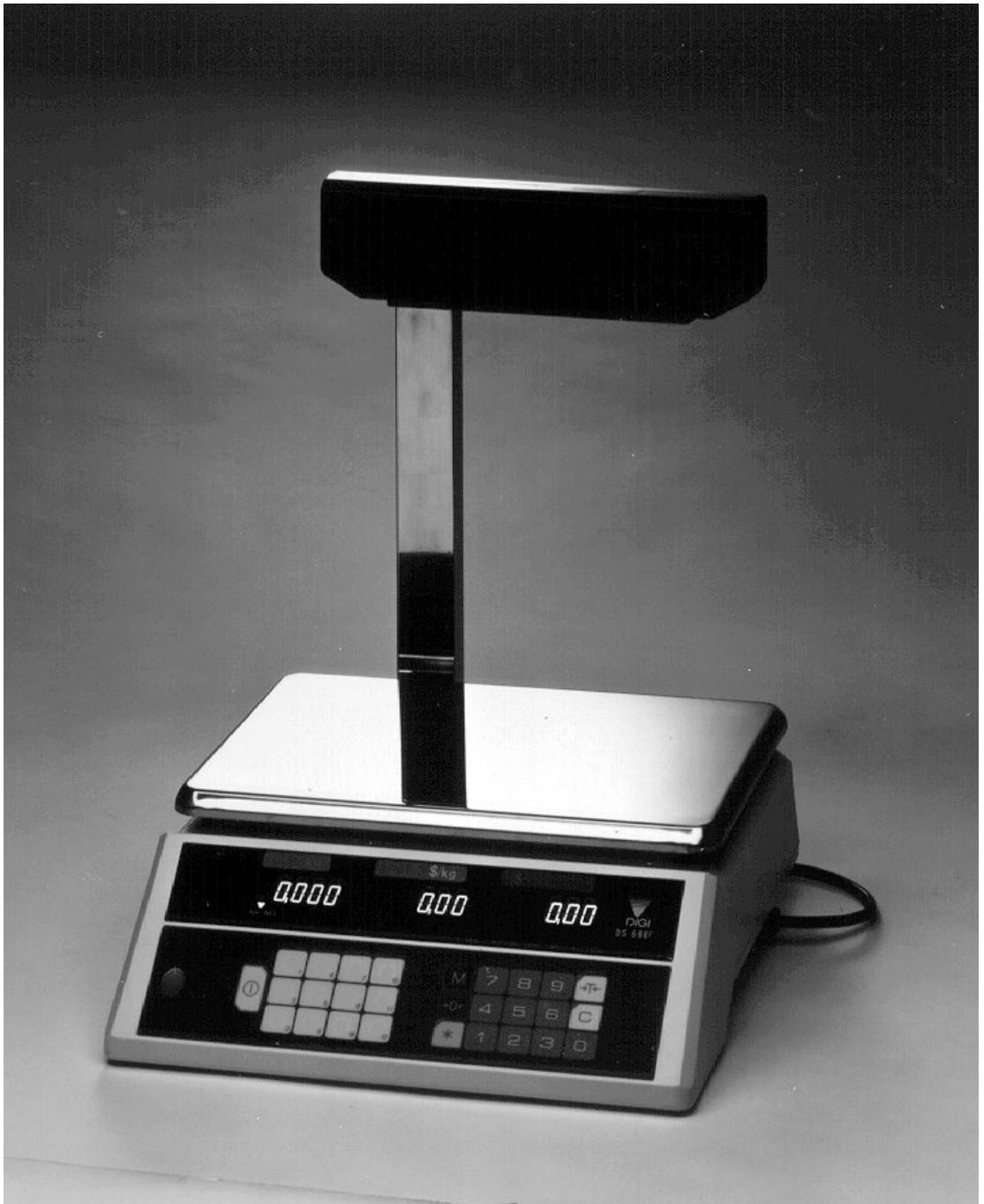
Teraoka Model DS-685 Weighing Instrument

FIGURE 6/4D/283 - 2



Teraoka Model DS-688 Weighing Instrument

FIGURE 6/4D/283 - 3



Teraoka Model DS-688F Weighing Instrument

FIGURE 6/4D/283 - 4



Teraoka Model DC-688 Weighing Instrument

FIGURE 6/4D/283 - 5



Teraoka Model DMC-688 Weighing Instrument With Coin Counting Facility