



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Certificate of Approval**  
**No 6/4C/207**

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

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

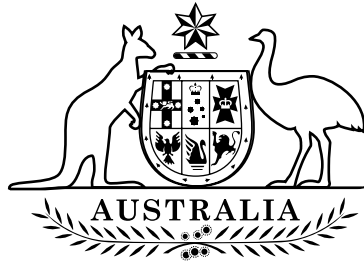
Teraoka Model Digi DS-770 Weighing Instrument

submitted by           W W Wedderburn Pty Ltd  
                                  90 Parramatta Road  
                                  SUMMER HILL   NSW   2130

has been cancelled in respect of new instruments as from 1 January 2012.

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

A handwritten signature in black ink, consisting of stylized cursive letters, positioned to the right of the signature text.



# National Standards Commission

## Certificate of Approval

**No 6/4C/207**

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 Digi DS-770 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 April 2005, and then every 5 years thereafter. 

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/207 and only by persons authorised by the submittor.

It is the submittor'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 15 March 2000

- A Teraoka model Digi DS-770 single-interval self-indicating weighing instrument of 15 kg maximum capacity.

**Variants:** approved 15 march 2000

1. Of 6 kg maximum capacity.
2. As multi-interval instruments of certain capacities.

Technical Schedule No 6/4C/207 describes the pattern and variants 1 & 2.

## FILING ADVICE

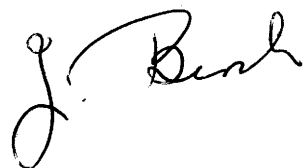
The documentation for this approval comprises:

Certificate of Approval No 6/4C/207 dated 14 April 2000  
Technical Schedule No 6/4C/207 dated 14 April 2000 (incl. Test Procedure)



Figure 1 dated 14 April 2000

Signed and sealed 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.



## TECHNICAL SCHEDULE No 6/4C/207


**Pattern:** Teraoka Model Digi DS-770 Weighing Instrument.

**Submittor:** W W Wedderburn Pty Ltd  
90 Parramatta Road  
SUMMER HILL NSW 2130.

### 1. Description of Pattern

A Teraoka model Digi DS-770 single-interval self-indicating weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.005 kg. Instruments may be as shown in Figure 1 or the remote indicator may be mounted on a column.

#### 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.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

#### 1.2 Tare

A semi-automatic subtractive tare device of up to 5.995 kg capacity may be fitted.

#### 1.3 Display Check

A display check is initiated whenever power is applied.

#### 1.4 Levelling

Instruments are provided with adjustable feet and a level indicator. Adjacent to the level indicator is a notice stating 'instrument must be level when in use', or similar wording.

#### 1.5 Verification/Certification Provision

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

#### 1.6 Sealing Provision

Provision is made for access to the calibration adjustments to be sealed by means of a destructible label over the adjustment switch access cover located under the load receptor.

## 1.7 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Teraoka, Singapore
Name or mark of manufacturer's agent	Wedderburn
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 6/4C/207

- \* These markings shall also be shown near the display of the result if they are not already located there.

## 2. Description of Variants

### 2.1 Variant 1

Of 6 kg maximum capacity with a verification scale interval of 0.002 kg.

A semi-automatic subtractive tare device of up to 2.998 kg capacity may be fitted.

### 2.2 Variant 2

As multi-interval instruments of certain capacities as listed below:

- (i) With a verification scale interval ( $e_1$ ) of 0.001 kg up to 3 kg and with a verification scale interval ( $e_2$ ) of 0.002 kg from 3 kg up to the maximum capacity of 6 kg.
- (ii) With a verification scale interval ( $e_1$ ) of 0.002 kg up to 6 kg and with a verification scale interval ( $e_2$ ) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

The tare capacity does not exceed  $Max_1$ , the capacity of the low range.

Instruments are marked with the 'Maximum capacity' and with the 'Verification scale interval' for both interval ranges, in addition to the other data specified in clause 1.7 Markings.

## TEST PROCEDURE

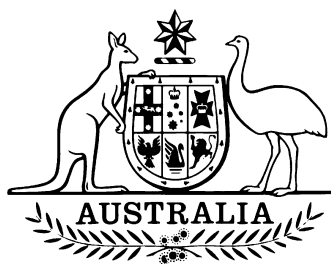
Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

### **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  $2\,000 < m \leq 10\,000$ .

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



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Notification of Change

### Certificate of Approval No 6/4C/207

### Change No 1

The following changes are made to the approval documentation for the

Teraoka Model Digi DS-770 Weighing Instrument

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

1. In Certificate of Approval No 6/4C/207 dated 14 April 2000, the following should be added to the Conditions of Approval:

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

2. In Technical Schedule No 6/4C/207 dated 14 April 2000, the following should be added to clause **1. Description of Pattern:**

“Instruments may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.”

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, consisting of a large, stylized initial 'W' followed by several loops and a long horizontal stroke.

6/4C/207  
16 August 2006



**Australian Government**  

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**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Notification of Change**  
**Certificate of Approval No 6/4C/207**  
**Change No 2**

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

The following change is made to the approval documentation for the

Teraoka Model Digi DS-770 Weighing Instrument

submitted by W W Wedderburn Pty Ltd  
90 Parramatta Road  
SUMMER HILL NSW 2130.

In Certificate of Approval No 6/4C/207 dated 14 April 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 April 2011, and then every 5 years thereafter.”

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

A handwritten signature in black ink, appearing to be 'J. G. T.', is written in a cursive style.





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Bradfield Road, West Lindfield NSW 2070

**Notification of Change**  
**Certificate of Approval No 6/4C/207**  
**Change No 3**

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 Digi DS-770 Weighing Instrument

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

A. In Certificate of Approval 6/4C/207 dated 14 April 2000, the FILING  
ADVICE is amended by adding the following:

“Notification of Change No 1 dated 30 April 2001  
Notification of Change No 2 dated 16 August 2006  
Notification of Change No 3 dated 16 June 2008”

B. In Technical Schedule 6/4C/207 dated 14 April 2000, in clause  
**1.1 Zero**, the 1<sup>st</sup> paragraph (referring to zero being automatically  
corrected) is replaced by the following:

“A zero-tracking device may be fitted.”

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

A handwritten signature in black ink, appearing to be 'J. H. T.', written in a cursive style.

FIGURE 6/4C/207 - 1



Teraoka Seiko Model DS-770 Weighing Instrument