



**Australian Government**  

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**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Cancellation  
Certificate of  
Approval No 6/9C/254**

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 Approval No 6/9C/254  
in respect of the

Teraoka Model DI-10/DS-410 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 April 2005.

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.', written in a cursive style.

## National Standards Commission



### Certificate of Approval

**No 6/9C/254**

Issued under Regulation 9  
of the  
National Measurement (Patterns of Measuring Instruments) Regulations

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

Teraoka Model DI-10/DS-410 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 May 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/254 and only by persons authorised by the submitter.

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

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.

This approval shall NOT be used in conjunction with General Certificate No 6B/0.

#### DESCRIPTIVE ADVICE

**Pattern:** approved 8 April 1997

- A Teraoka model DI-10/DS-410 self-indicating weighing instrument of 150 kg maximum capacity.

Technical Schedule No 6/9C/254 describes the pattern.

**Variants:** approved 15 July 1997

1. Model DI-10/DS-410 of 30 kg maximum capacity.
2. Model DI-10/DS-410 of 60 kg maximum capacity.

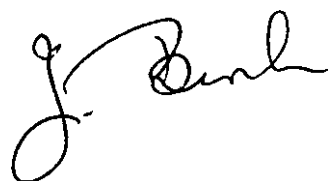
Technical Schedule No 6/9C/254 Variation No 1 describes variants 1 and 2.

#### FILING ADVICE

Certificate of Approval No 6/9C/254 dated 1 July 1997, is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/254 dated 18 September 1997  
Technical Schedule No 6/9C/254 dated 1 July 1997 (incl. Test Procedure)  
Technical Schedule No 6/9C/254 Variation No 1 dated 18 September 1997  
Figures 1 and 2 dated 1 July 1997

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



## National Standards Commission

TECHNICAL SCHEDULE No 6/9C/254

**Pattern:** Teraoka Model DI-10/DS-410 Weighing Instrument.

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

### 1. Description of Pattern

A Teraoka model DI-10/DS-410 self-indicating platform weighing instrument (Figure 1) of 150 kg maximum capacity with a verification scale interval of 0.05 kg.

#### 1.1 Basework

The model DS-410 basework (Figure 2) has the load receptor directly supported by a single load cell.

The load receptor has maximum nominal dimensions of 415 x 415 mm.

#### 1.2 Load Cells

A Teraoka model RW 150 load cell of 150 kg capacity is used, mounted as shown in Figure 2.

#### 1.3 Indicator

A Teraoka Seiko model DI-10 digital indicator (Figure 1) is used.

The indicator may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

A display check is initiated whenever the ON/OFF button is pressed.

##### 1.3.1 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.

### 1.3.2 Tare

A semi-automatic and/or a pre-set taring device may be fitted. Each device is subtractive and has a capacity of up to the maximum capacity of the instrument,

### 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 in the indicator to be sealed by means of a destructible label over a case retaining screw or across the join of the casing halves.

### 1.6 Markings

An instrument shall 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 *
Serial number of the instrument	
Pattern approval mark for the instrument	NSC No 6/9C/254

- \* These markings shall also be shown near the display of the result 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:

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

TECHNICAL SCHEDULE No 6/9C/254

VARIATION No 1

**Pattern:** Teraoka Model DI-10/DS-410 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 DI-10/DS-410 weighing instrument of 30 kg maximum capacity with a verification scale interval of 0.01 kg.

A Teraoka model RW 30 load cell of 30 kg capacity is used, mounted as shown in Figure 2.

### 1.2 Variant 2

A model DI-10/DS-410 weighing instrument of 60 kg maximum capacity with a verification scale interval of 0.02 kg.

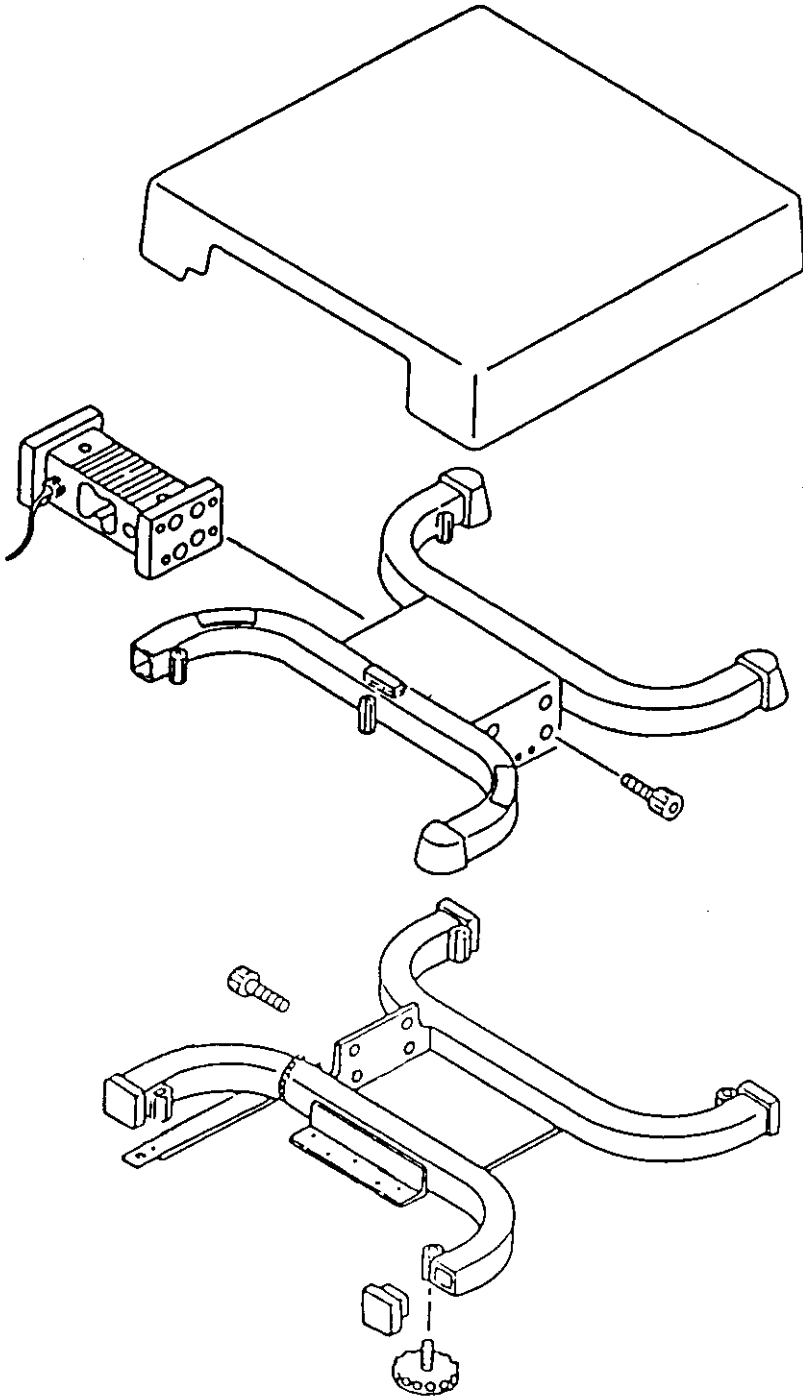
A Teraoka model RW 60 load cell of 60 kg capacity is used, mounted as shown in Figure 2.

FIGURE 6/9C/254 - 1



Teraoka Model DI-10/DS-410 Weighing Instrument

FIGURE 6/9C/254 - 2



Teraoka Model DS-410 Basework