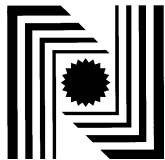
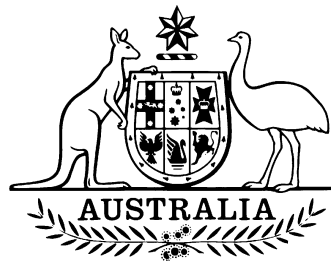


6/4C/60A  
13 August 2001



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Cancellation

### Certificate of Approval

### No 6/4C/60A

Issued 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 Seiko Model DS-460 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 September 2001.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

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.



## National Standards Commission



### Certificate of Approval

**No 6/4C/60A**

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 Seiko Model DS-460 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 2000, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/60A and only by persons authorised by the submittor.

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.

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

#### DESCRIPTIVE ADVICE

**Pattern:** approved 26 May 1995

- A Teraoka Seiko model DS-460 multi-interval self-indicating weighing instrument of 6 kg maximum capacity.

**Variation:** approved 26 May 1995

1. Model DS-420 weighing instrument.

Technical Schedule No 6/4C/60A describes the pattern and variation 1.

**Variation:** approved 27 November 1997

2. Model DS-460 weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4C/60A Variation No 1 describes variation 2.

#### FILING ADVICE

Certificate of Approval No 6/4C/60A dated 27 November 1995 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

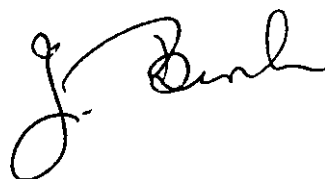
Certificate of Approval No 6/4C/60A dated 13 January 1998

Technical Schedule No 6/4C/60A dated 27 November 1995 (incl. Test Procedure)

Technical Schedule No 6/4C/60A Variation No 1 dated 13 January 1998

Figure 1 dated 27 November 1995

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 6/4C/60A

**Pattern:** Teraoka Seiko Model DS-460 Weighing Instrument.

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

#### 1. Description of Pattern

A Teraoka Seiko model DS-460 multi-interval self-indicating weighing instrument (Figure 1) 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. Instruments may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

##### 1.1 Zero

Zero is automatically corrected to within  $\pm 0.25e_1$  whenever power is applied and whenever the instrument comes to rest within  $0.5e_1$  of zero.

The instrument has a semi-automatic zero-setting device with a range of not more than 4% of the maximum capacity of the instrument. The instrument has an initial zero-setting device with a range of not more than 20% of the maximum capacity of the instrument.

##### 1.2 Tare

A semi-automatic subtractive taring device and/or a keyboard-operated pre-set tare device, each of up to maximum capacity, may be fitted.

##### 1.3 Management Function

Instruments are fitted with a set point management function with an associated UNDER/OVER display.

##### 1.4 Display Check

A display check is initiated whenever power is applied.

##### 1.5 Levelling

The instrument is provided with adjustable feet and a level indicator.

##### 1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

## 1.7 Sealing Provision

Provision is made for the calibration adjustment access cover on the underside of the instrument to be sealed.

## 1.8 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/60A
Accuracy class	III
Maximum capacity	Max ..... / ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ..... / ..... kg *

\* Repeated adjacent to the reading face.

In addition, the instruments shall be marked NOT FOR RETAIL COUNTER USE, or similar wording.

## 2. Description of Variant 1

Without the set point management facility (and UNDER/OVER display) in which case the instrument is known as a model DS-420.

### TEST PROCEDURE

Instruments should be tested in conjunction 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, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within  $\pm 0.25e$  at no load, are:

- $\pm 0.5e$  for loads from 0 to  $500e$ ;
- $\pm 1.0e$  for loads over  $500e$  up to  $2000e$ ; and
- $\pm 1.5e$  for loads over  $2000e$ .

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.

TECHNICAL SCHEDULE No 6/4C/60A

VARIATION No 1

**Pattern:** Teraoka Seiko Model DS-460 Weighing Instrument.

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

**1. Description of Variant 2**

A Teraoka Seiko model DS-460 multi-interval self-indicating weighing instrument with 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.

**1.1 Tare**

A semi-automatic subtractive taring device of up to maximum capacity, and a keyboard-entered pre-set subtractive taring device of up to 0.748 kg capacity, may be fitted.

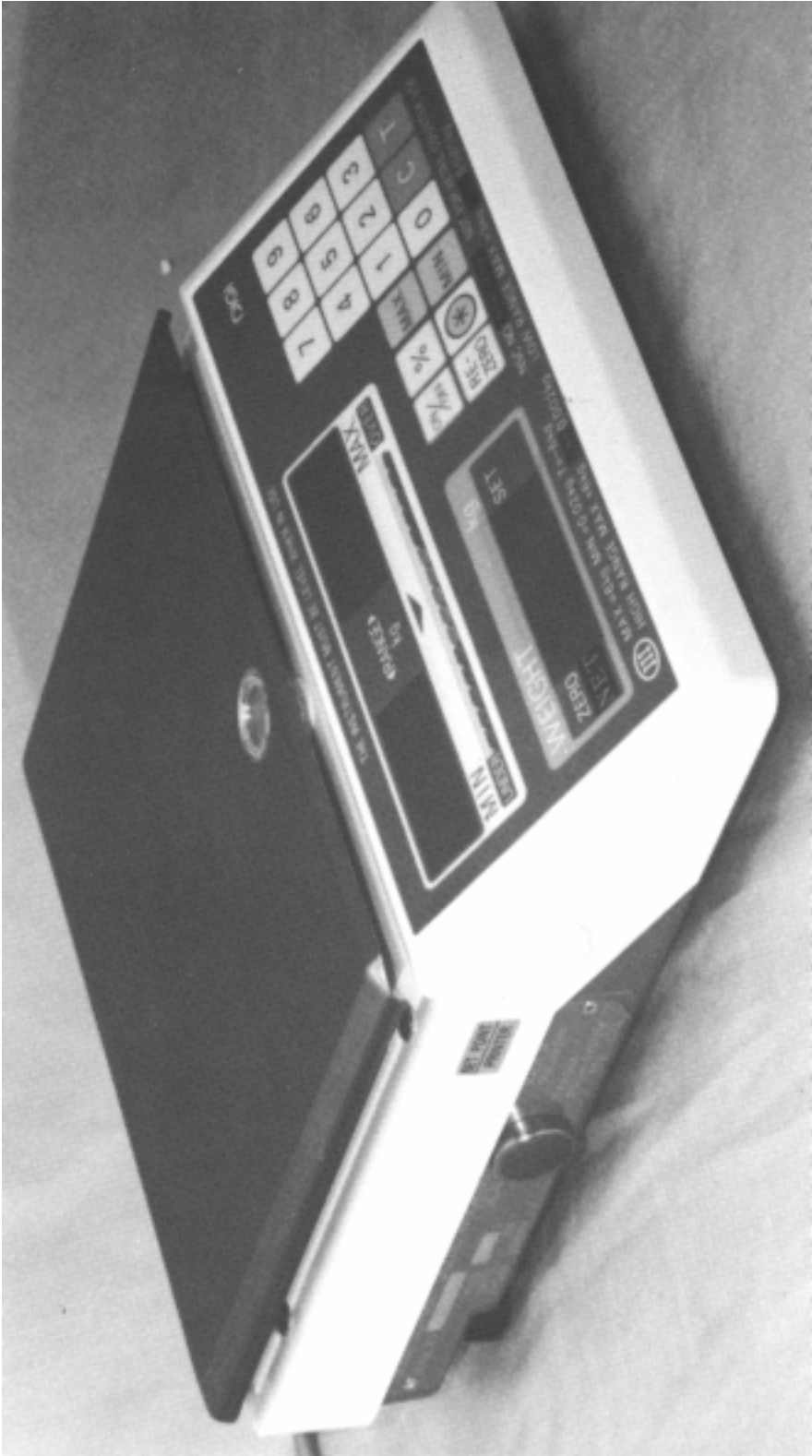
NOTIFICATION OF CHANGE

In Technical Schedule No 6/4C/60A dated 27 November 1995, clause **1.2 Tare** is amended to read as follows:

A semi-automatic subtractive taring device of up to maximum capacity, and a keyboard-entered pre-set subtractive taring device of up to 0.299 kg capacity, may be fitted.

Note: Some instruments installed prior to 1 January 1998 may have the pre-set subtractive taring device enabled up to the maximum capacity of the instrument.

FIGURE 6/4C/60A - 1



Teraoka Seiko Model DS-460 Weighing Instrument