National Standards Commission

Certificate of Approval

No 6/4C/71

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

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

Teraoka Seiko Model DC-120 Weighing Instrument

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

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

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CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/96.
This approval expires in respect of new instruments on 1/10/97.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/71 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 drawings and specifications 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.

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

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 26/9/91

- A Teraoka Seiko model DC-120 self-indicating weighing instrument of 10 kg maximum capacity. The instrument is fitted with an additional load receptor of 1 kg maximum capacity.

Variants: approved 26/9/91

1. Of 5 kg capacity.

2. Of certain other capacities as listed in Table 1.

3. With a single load receptor of 500 g capacity.

4. With a single load receptor and of certain other capacities as listed in Table 2.

Technical Schedule No 6/4C/71 describes the pattern and variants 1 to 4.

FILING ADVICE

The documentation for this approval comprises.

Certificate of Approval No 6/4C/71 dated 20/11/91
Technical Schedule No 6/4C/71 dated 20/11/91 (incl. Tables 1 & 2 and Test Procedure)
Figures 1 and 2 dated 20/11/91

National Standards Commission

TECHNICAL SCHEDULE No 6/4C/71

Pattern: Teraoka Seiko Model DC-120 Weighing Instrument.

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

1. Description of Pattern

A Teraoka Seiko model DC-120 self-indicating weighing instrument (Figure 1) of 10 kg maximum capacity with a verification scale interval of 0.002 kg. The instrument is fitted with an additional load receptor of 1 kg maximum capacity with a verification scale interval of 0.0002 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 ±0.25e whenever the instrument comes to rest within 0.5e of zero. If the instrument comes to rest outside that range but within the zero reset range, zero may be reset by pressing the zero button. The zero light illuminates whenever zero is within ±0.25e.

1.2 Display Check

A display check is initiated whenever the ZERO button is pressed.

1.3 Tare

A semi-automatic and/or a non-automatic subtractive taring device, each of up to maximum capacity of the relevant load receptor may be fitted.

1.4 Counting Facility

Instruments may be fitted with a counting facility for determining the number of items, of nominally equal mass, from the mass of a quantity of the items.

1.5 Levelling

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

1.6 Verification/Certification Provision

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

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1.7 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/71
Accuracy class	(III)
For each platform:	
Maximum capacity	Max..... kg # *
Minimum capacity	Min ..... kg # *
Verification scale interval	e = d = ... kg # *
Maximum subtractive tare	T = - ..... kg #

\# Alternatively, instruments may be marked in "g".

* Repeated in the vicinity of each reading face.

In addition, instruments are marked NOT FOR RETAIL COUNTER USE, NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variants

2.1 Variant 1

Of 5 kg maximum capacity with a verification scale interval of 0.001 kg. The instrument is fitted with an additional load receptor of 1 kg maximum capacity with a verification scale interval of 0.0002 kg.

2.2 Variant 2

In certain other capacities as listed in Table 1. These instruments may be marked in "g" (as shown in the Table) or alternatively they may be marked in "kg".

TABLE 1

Platform 1		Platform 2	
Maximum Capacity	Verification Scale Interval	Maximum Capacity	Verification Scale Interval
10 000 g	2 g	500 g	0.1 g
5 000 g	1 g	500 g	0.1 g
2 500 g	0.5 g	500 g	0.1 g

2.3 Variant 3

With a single load receptor of 500 g maximum capacity with a verification scale interval of 0.1 g. Alternatively, this instrument may be marked in "kg".

2.4 Variant 4

With a single load receptor (Figure 2) in certain other capacities as listed in Table 2. These instruments may be marked in "kg" (as shown in the Table) or alternatively they may be marked in "g".

TABLE 2

Maximum Capacity	Verification Scale Interval
50 kg	0.01 kg
25 kg	0.005 kg
10 kg	0.002 kg
5 kg	0.001 kg
2.5 kg	0.0005 kg
1 kg	0.0002 kg

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 ±0.25e at no load, are:

±0.5e for loads from 0 to 500e;
±1.0e for loads over 500e up to 2000e; and
±1.5e for loads over 2000e.

National Standards Commission

Notification of Change

Certificate of Approval No 6/4C/71

Change No 1

The following change is made to the approval documentation for the

Teraoka Seiko Model DC-120 Weighing Instrument

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

In Certificate of Approval No 6/4C/71 dated 20 November 1991, the Condition of Approval referring to the expiry of the approval should be amended to read:

This approval expires in respect of new instruments on 1 October 1998.

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.

FIGURE 6/4C/71 - 1

Teraoka Seiko Model DC-120 Dual-receptor
Weighing Instrument

FIGURE 6/4C/71 - 2

Teraoka Seiko Model DC-120 Single-receptor
Weighing Instrument