NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4C/58

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

Teraoka Seiko Model DC-70 Weighing Instrument

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

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/7/93.
This approval expires in respect of new instruments on 1/7/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/58.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

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

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified in this approval or in any approval documentation for the components, where they are approved separately.

Special:

Instruments purporting to comply with variant 3 are only approved for use with either 2500 or 5000 verification scale intervals exactly.

Instruments are not approved with a digital tare facility.

Signed

Executive Director

Descriptive Advice

Pattern: approved 28/6/88

- A self-indicating weighing instrument of 2.5 kg maximum capacity with a verification scale interval of 0.001 kg.

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Variant: approved 28/6/88

1. Of 5 kg capacity with a verification scale interval of 0.002 kg.

2. Of 25 kg capacity with a verification scale interval of 0.005 kg.

3. With up to two remote baseworks of various capacities as listed in Table 1.

Technical Schedule No 6/4C/58 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4C/58 dated 5/8/88
Technical Schedule No 6/4C/58 dated 5/8/88
Test Procedure No 6/4C/58 dated 5/8/88
Figures 1 and 2 dated 5/8/88

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/58

Pattern: Teraoka Seiko Model DC-70 Weighing Instrument.

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

1. Description of Pattern

A self-indicating weighing instrument (Figure 1) of 2.5 kg maximum capacity with a verification scale interval of 0.001 kg. The instrument 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 power is applied.

1.3 Tare

A semi-automatic subtractive taring device of up to 40% of maximum capacity may be fitted.

1.4 Counting Facility

The instrument 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. The unit mass of an item must be entered either by weighing a sample of 10 items or by entering a value directly via the instrument keyboard.

1.5 Set Point

A set point facility may be fitted to produce an audible tone when either a mass or quantity set point is reached.

1.6 Memory

This facility allows the quantities of a number of weighings to be totalised.

1.7 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.

1.8 Verification Provision

Provision is made for a verification mark to be applied.

1.9 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/58	
Accuracy class	(III)	
Maximum capacity	Max ... kg	* #
Minimum capacity	Min ... kg	* #
Verification scale interval	e = d = ... kg	* #
Maximum subtractive tare	T = - ... kg	#

* These markings are repeated close to each reading face.

\# These markings are repeated under the headings SCALE 1 and SCALE 2, except that Tare need not be included when the two baseworks have the same Tare capacity.

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

2. Description of Variants

2.1 Variant 1

Of 5 kg capacity with a verification scale interval of 0.002 kg.

2.1 Variant 2

Of 25 kg capacity with a verification scale interval of 0.005 kg.

2.3 Variant 3

With up to two remote baseworks of various capacities as listed in Table 1, and either with or without the integral load receptor. In the former case, only one remote basework may be connected. The basework to be used is selected using the 1/2 button.

The counting facilities of the two baseworks may interact, but the weighing and taring functions are independent and shall not interact.

Instruments purporting to comply with variant 3 are only approved for use with either 2500 or 5000 verification scale intervals exactly.

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TEST PROCEDURE No 6/4C/58

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

The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.

1. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity. The device shall be capable of both negative and positive adjustments of at least one-quarter of the zero adjustment range. With zero balance indicated apply a load of, say, 3.5% of maximum capacity, turn the power off and then back on, and then press the zero button; the instrument should not rezero.

2. Taring

The tare function should be able to reset the mass indicator to zero within ± 0.25e at any load within its capacity. A tare should not be able to be acquired above the marked tare capacity

It shall not be possible to enter a digital tare. This may be checked by pressing the tare button with the load receptor empty then entering a number on the keypad and pressing the tare button again; the number entered shall not have been accepted as a tare.

3. Counting

A test may be carried out for accuracy of count for a unit mass equal to or greater than the verification scale interval. The number counted shall be correct to one count. All tests shall be carried out using standard masses.

NATIONAL STANDARDS COMMISSION

EDITORIAL NOTE

CERTIFICATE OF APPROVAL No 6/4C/58

The attached Table was inadvertently omitted from the approval documentation dated 5/8/88 for the above approval.

TABLE 1

Maximum Capacity	(kg)	5	25	50	100	250	500
Verification Scale Interval	(kg)	0.002	0.005	0.01	0.02	0.1	0.2
Load Cell Model		LCK-0500	LCK-2500	RW-60	RW-150	RW-300	RW-600
Load Cell Capacity	(kg)	6	30	60	150	300	600
Load Cell Approval Number		S173	S173	S167	S167	S167	S167
Model Numbers		SA-5	SA-25	SBK-60	SBK-150	SBK-300	SEK-600
				SCK-60	SCK-150	SCK-300	
				SDK-60	DS-410		
				DS-410			

Approved Basework Models and Capacities/load Cell Combinations

6/4C/58
30/11/89

National Standards Commission

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4C/58

CHANGE No 1

The following change is made to the approval documentation for the

Teraoka Seiko Model DC-70 Weighing Instrument

submitted by W W Wedderburn Pty Ltd
(formerly J W Wedderburn & Sons Pty Ltd)
90 Parramatta Road
Summer Hill NSW 2130.

In Technical Schedule No 6/4C/58 dated 5/8/88, Table 1 is replaced by the attached Table which includes another 25 kg capacity instrument.

Signed

J. Birch.

Executive Director

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TECHNICAL SCHEDULE No 6/4C/58

TABLE 1

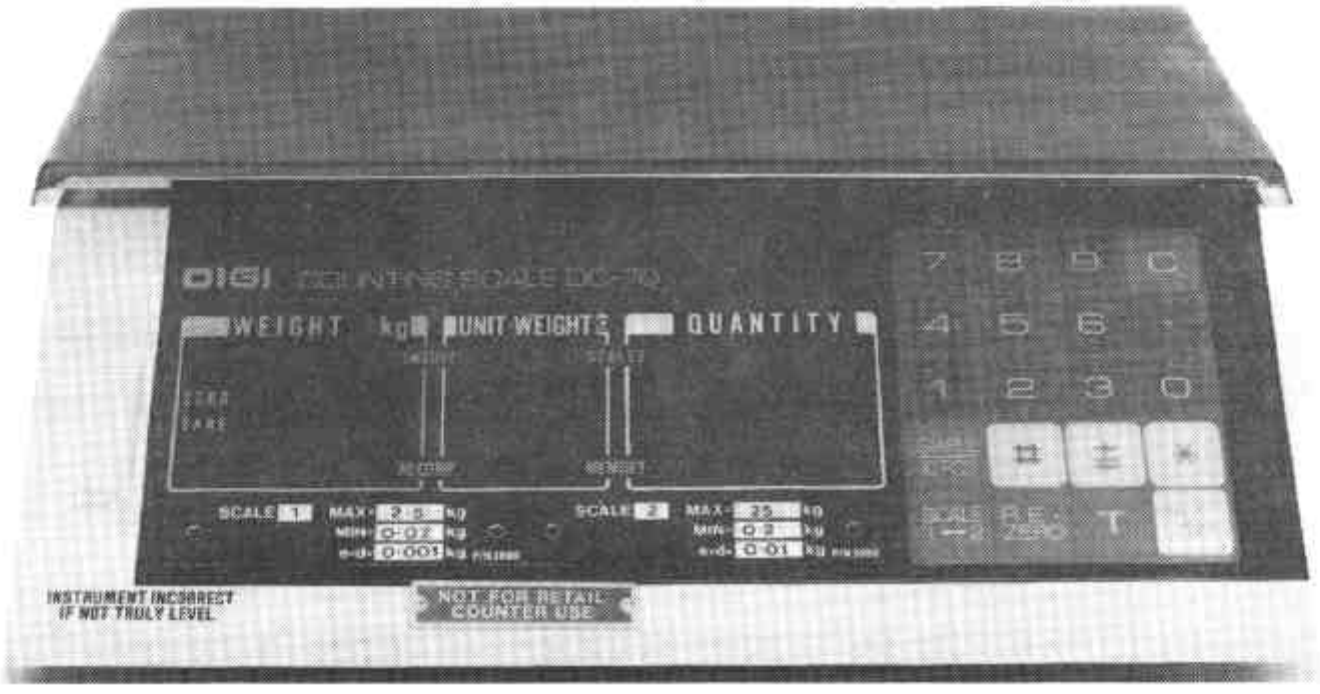
Maximum Capacity	(kg)	5	25	25	50
Verification Scale Interval	(kg)	0.002	0.005	0.01	0.01
Load Cell Model		LCK-0500	LCK-2500	RW-30(*)	RW-60
Load Cell Capacity	(kg)	6	30	30	60
Load Cell Approval Number		S173	S173	S167	S167
Model Numbers		SA-5	SA-25	DS-410	SBK-60
					SCK-60
					SDK-60
					DS-410

(*) Also known as a model RN 31

Maximum Capacity	(kg)	100	250	500
Verification Scale Interval	(kg)	0.02	0.1	0.2
Load Cell Model		RW-150	RW-300	RW-600
Load Cell Capacity	(kg)	150	300	600
Load Cell Approval Number		S167	S167	S167
Model Numbers		SBK-150	SBK-300	SEK-600
		SCK-150	SCK-300	
		DS-410		

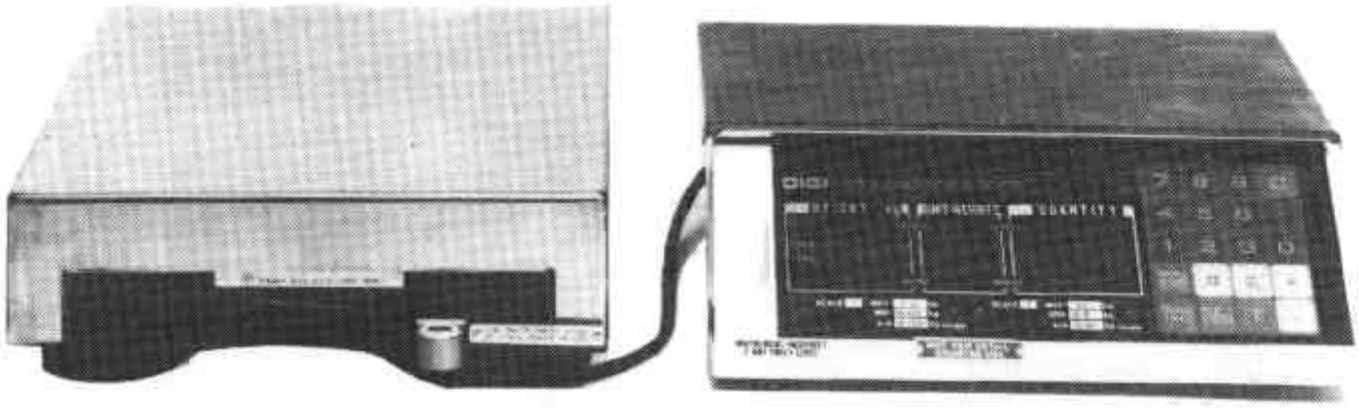
Approved Basework Models and Capacities/load Cell Combinations

FIGURE 6/4C/58 - 1



Teraoka Seiko Model DC-70

FIGURE 6/4C/58 - 2



With Remote Basework