



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation Certificate of Approval No 6/4D/238

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

Teraoka Seiko Model DS-380 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 July 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

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/238

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 DS-380 Series Weighing Instrument

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

Conditions of Approval

This approval is subject to review on or after 1/1/91.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/238.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Signed

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Acting Executive Director

Descriptive Advice

Pattern: approved 3/12/85

A dual-range self-indicating price-computing weighing instrument with 0.002 kg scale intervals up to 6 kg and with 0.005 kg scale intervals from 6 kg up to the maximum capacity of 15 kg.

Variants: approved 3/12/85

1. With the ability to display mass below zero.

2. Displaying mass only.

Technical Schedule No 6/4D/238 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4D/238 dated 20/3/86 Technical Schedule No 6/4D/238 dated 20/3/86 Test Procedure No 6/4D/238 dated 20/3/86 Figure 1 dated 20/3/86



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/238

Pattern: Teraoka Seiko DS-380 Series Weighing Instrument

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

1. Description of Pattern

The model DS-380 is a dual-range self-indicating price-computing weighing instrument (Figure 1) of 15 kg maximum capacity with 0.002 kg scale intervals up to 6 kg and with 0.005 kg scale intervals from 6 kg up to 15 kg. The instrument is fitted with a price-look-up (PLU) facility, unit price to \$999.99/kg and price to \$9999.99. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

When the purchasers' display is mounted on a column, the instrument is then known as a model DS-381.

1.1 Zero

Zero is automatically corrected to within \pm 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 \pm 0.25e.

1.2 Display Check

A display check is initiated whenever power is applied to the instrument.

1.3 Tare

A semi-automatic taring device of up to 0.748 kg capacity may be fitted.

1.4 Markings

The instrument is marked with the following data, together in one location:

Manufacture	r's name or mark		
Serial number	er		
NSC approval number		NSC No 6/4D/238	
Accuracy cla	JSS	(III)	
Maximum capacity		Max	15 kg *
Minimum capacity		Min	0.04 kg *
Low range:	Maximum capacity	Max	6 kg *
	Verification scale interval	e = d =	0.002 kg *
High range:	Maximum capacity	Max	15 kg *
	Verification scale interval	e = d =	0.005 kg *
Maximum subtractive tare		T = -	0.748 kg

* These markings are repeated close to each reading face.

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 Provision

Provision is made for a verification mark to be applied.

2. Description of Variants

2.1 Variant 1

With the ability to display mass below zero in which case the instrument is not for retail counter use and must be so marked.

2.2 Variant 2

Displaying mass only.

TEST PROCEDURE No 6/4D/238

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

The maximum permissible errors are:

- ± 0.5e for loads between 0 and 500e;
- ± 1.0e for loads between 501e and 2000e; and
- ± 1.5e for loads above 2000e.

1. Zero Test

As the automatic device resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will be 10e and 11e respectively.

2. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity (± 2% approximately). With zero balance indicated apply a load of, say, 2.5% of maximum capacity to the instrument and press the zero button; the instrument should not rezero.

3. Load Test

Test loads are to be applied to the instrument in not less than 6 steps increasing to maximum capacity, followed by decreasing loads in not less than 6 steps to zero load, selected such that there are 3 approximately equal steps in each range, but avoiding the changeover point of the ranges.

4. Range of Indication

The maximum mass indicated should not exceed the marked maximum capacity by more than 10e; above this indicated mass the indication should be blank or show non-numerical characters.

5. Toring

The tare function should be able to reset the mass indicator to zero within 0.25e at any load within its capacity. This may be checked as described for Zero Test. A tare should not be able to be acquired above the marked tare capacity.



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/238

CHANGE No 1

The following change is made to the approval documentation for the

Teroaka Seiko Model DS-380 Weighing Instrument

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

In Technical Schedule No 6/4D/238 dated 20/3/86, add the following footnote to Page 1:

"Note: Model DS-380 instruments may be fitted with a "hold" function, operated by the appropriate button located on the keyboard. With this function ON, the display of the last weighing/price-computing operation will be retained for approximately 10 seconds after the mass has been removed.

This function should be OFF whenever verification tests are performed."

Signed

Executive Director





Terooka Selko DS-380