National Standards Commission

Certificate of Approval

No 6/4D/238A

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-380 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.

This Certificate is issued upon completion of a review of NSC approval No 6/4D/238.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 May 2000.
This approval expires in respect of new instruments on 1 May 2001.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/238A and only by persons authorised by the submittor.

..../2

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.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 10 April 1995

- A Teraoka Seiko model DS-380 multi-interval self-indicating price-computing weighing instrument of 15 kg maximum capacity.

Variants: approved 10 April 1995

1. Displaying mass only.
2. Of 30 kg maximum capacity.
3. Of 6 kg maximum capacity.
4. As a single-interval instrument of certain capacities.

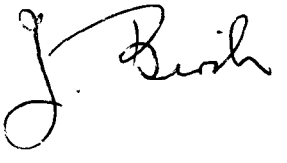
Technical Schedule No 6/4D/238A describes the pattern and variants 1 to 4.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/238A dated 23 June 1995
Technical Schedule No 6/4D/238A dated 23 June 1995 (incl. Test Procedure)
Figure 1 dated 23 June 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 6/4D/238A

Pattern: Teraoka Seiko Model DS-380 Weighing Instrument.

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

1. Description of Pattern

A Teraoka Seiko model DS-380 multi-interval self-indicating price-computing weighing instrument (Figure 1) with a 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.

Instruments have unit price to $999.99/kg, price to $9999.99, a price-look-up (PLU) facility, and 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 ±2% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic taring device of up to 5.998 kg capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

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

1.5 Verification/Certification Provision

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

1.6 Sealing Provision

Provision is made for a destructive label to be placed either over a casing retaining screw or across the join of the casing halves.

..../2

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 6/4D/238A
Accuracy class	(III)
Maximum capacity	Max ..... / ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ... / ..... kg *
Maximum subtractive tare	T = - ..... kg

* Repeated adjacent to each reading face.

2. Description of Variants

2.1 Variant 1

Displaying mass only, i.e. without price-computing.

2.2 Variant 2

With a verification scale interval of 0.005 kg up to 15 kg and with a verification scale interval of 0.010 kg from 15 kg up to the maximum capacity of 30 kg. The maximum tare capacity is 9.995 kg.

2.3 Variant 3

With a verification scale interval of 0.001 kg up to 3 kg and with a verification scale interval of 0.002 kg from 3 kg up to the maximum capacity of 6 kg. The maximum tare capacity is 2.999 kg.

2.4 Variant 4

As a single-interval instrument of various capacities as listed below:

Maximum capacity	kg	6	15	30
Verification scale interval	kg	0.002	0.005	0.010
Maximum tare capacity	kg	5.998	9.995	9.990

TEST PROCEDURE

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

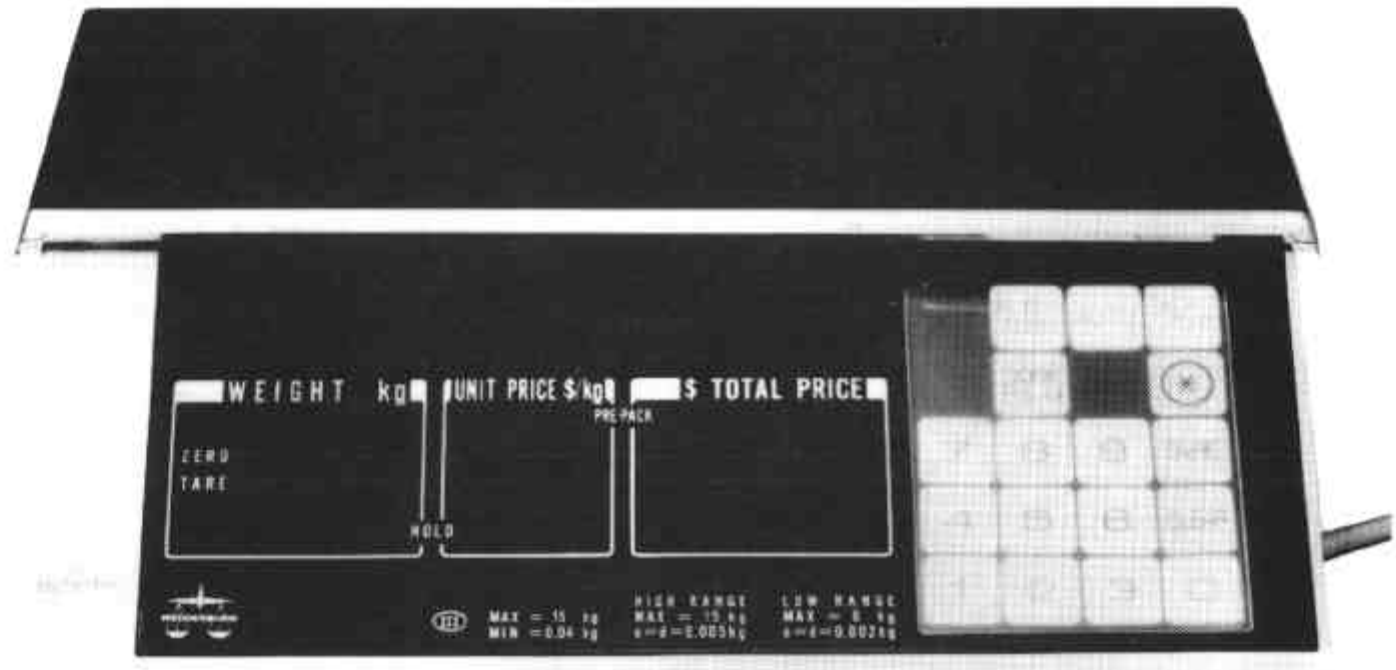
Maximum Permissible Errors at Verification/Certification

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.

For multi-interval instruments with verification scale intervals of e_1, e_2, ..., apply e_1 for zero adjustment and for maximum permissible errors apply e_1, e_2, ..., as applicable for the load.

FIGURE 6/4D/238A - 1



Teraoka Seiko Model DS-380 Weighing Instrument