



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4D/301

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Teraoka Seiko Model Digi DS-788 Weighing Instrument

submitted by W W Wedderburn Pty Ltd
101 Williamson Road
Ingleburn NSW 2565

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 approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on **1/01/17**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 6 approved – interim certificate issued	21/12/01
1	Pattern & variants 1 to 6 approved – certificate issued	15/02/02
2	Pattern & variants 1 to 6 approved – notification of change issued	22/03/07
3	Pattern & variants 1 to 6 reviewed & updated – certificate issued	3/05/12

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI (or NSC) 6/4D/301' 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 documentation lodged with the National Measurement Institute (NMI) 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 document NMI P 106.

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

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the bottom.

TECHNICAL SCHEDULE No 6/4D/301

1. Description of Pattern

approved on 21/12/01

A Teraoka Seiko model Digi DS-788 class III non-automatic self-indicating multi-interval price-computing weighing instrument 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 have unit price to \$999.99/kg and price to \$9999.99.

Instruments are fitted with the load receptor of 243 x 340 mm as shown in Figure 1 and may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral 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 initial zero-setting device of the pattern has a nominal range of not more than 20% of the maximum capacity of the instrument.

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

1.2 Tare

A semi-automatic subtractive tare device of up to 2.999 kg maximum capacity may be fitted.

1.3 Descriptive Markings

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full	Teraoka Seiko
Name or mark of manufacturer's agent	WEDDERBURN
Indication of accuracy class	III
Pattern approval mark for the instrument	NMI (or NSC) 6/4D/301
Maximum capacity	<i>Max</i>/..... g or kg #1
Minimum capacity	<i>Min</i> g or kg #1
Verification scale interval	<i>e</i> =/..... g or kg #1
Maximum subtractive tare	<i>T</i> = - g or kg #2
Serial number of the instrument

#1 These markings are also shown near the display of the result if they are not already located there.

#2 This marking is required if *T* is not equal to *Max*.

1.4 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.

1.5 Display Check

A display check is initiated whenever power is applied.

1.6 Verification Provision

Provision is made for the application of a verification mark.

1.7 Sealing Provision

Provision is made for the calibration adjustments of the instrument, located under the load receptor and on the underside of the body, to be sealed by means of destructible labels or sealing screws (Figure 2).

2. Description of Variant 1 approved on 21/12/01

The model DS-788 multi-interval price-computing weighing instrument in certain other capacities as listed below:

- 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.

The tare device, if fitted, has a maximum capacity of 5.998 kg.

- With a verification scale interval (e_1) of 0.005 kg up to 15 kg and with a verification scale interval (e_2) of 0.01 kg from 15 kg up to the maximum capacity of 30 kg.

The tare device, if fitted, has a maximum capacity of 9.995 kg.

3. Description of Variant 2 approved on 21/12/01

The model DS-788 single interval weighing instrument in certain capacities as listed below:

- Of 6 kg maximum capacity with a verification scale interval of 0.002 kg.

The tare device, if fitted, has a maximum capacity of 2.998 kg.

- Of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

The tare device, if fitted, has a maximum capacity of 7.495 kg.

- Of 30 kg maximum capacity with a verification scale interval of 0.01 kg.

The tare device, if fitted, has a maximum capacity of 14.99 kg.

For single interval instruments there is only one interval range therefore only one value of maximum capacity and verification scale interval to be marked.

4. Description of Variant 3 approved on 21/12/01

The model DS-788P with a column-mounted customer display (Figure 3).

5. Description of Variant 4 approved on 21/12/01

The model DS-788RM with a remote column-mounted customer display (Figure 4).

6. Description of Variant 5

approved on 21/12/01

Any model DS-788, DS-788P or DS-788RM approved herein as a mass only weighing instrument.

7. Description of Variant 6

approved on 21/12/01

With a rechargeable internal battery.

TEST PROCEDURE No 6/4D/301

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Tests

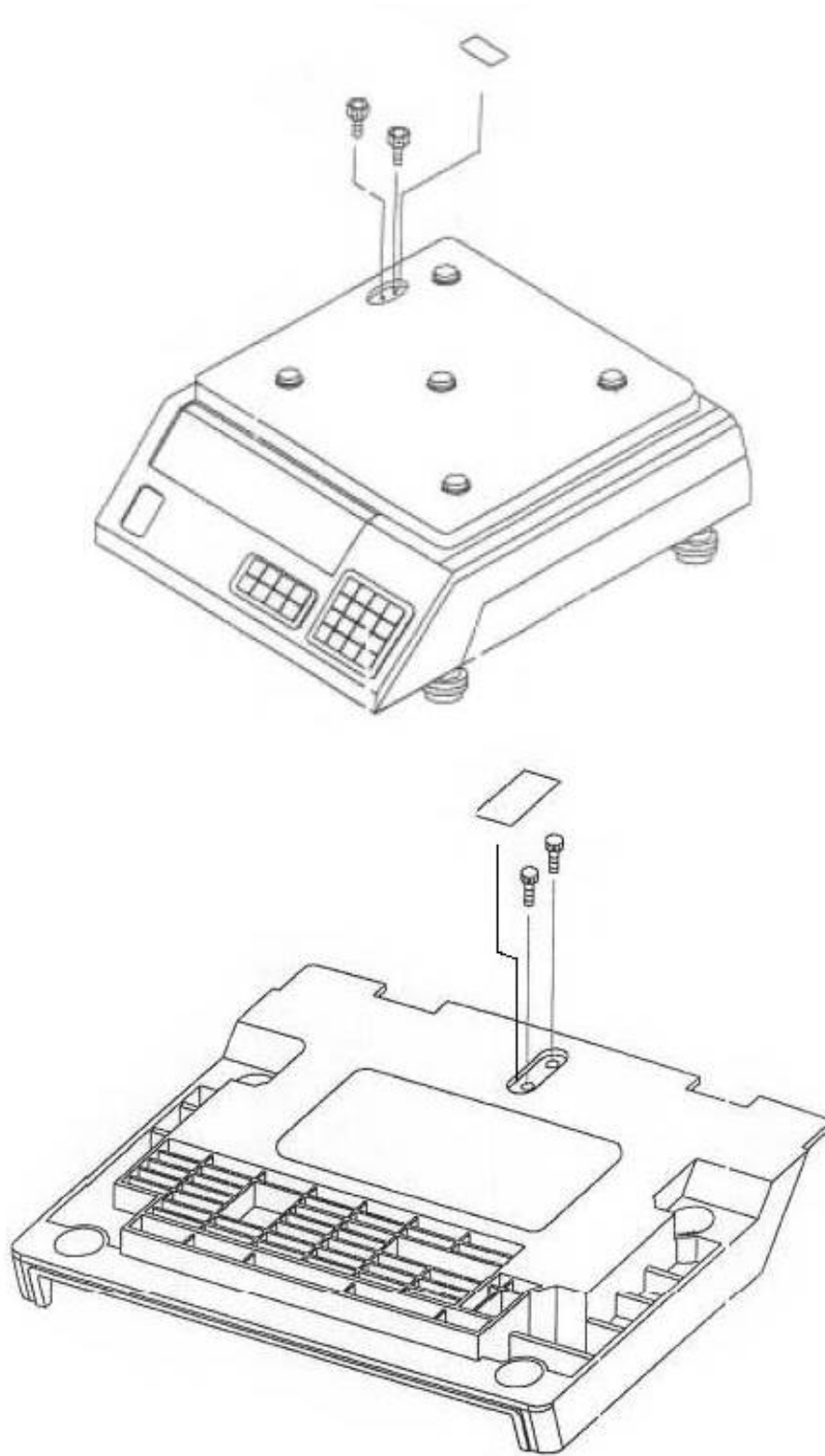
For multi-interval instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

FIGURE 6/4D/301 – 1



Teraoka Seiko Model Digi DS-788 Weighing Instrument

FIGURE 6/4D/301 – 2



Typical Sealing Methods

FIGURE 6/4D/301 – 3



Teraoka Seiko Model Digi DS-788P Weighing Instrument

FIGURE 6/4D/301 – 4



Remote Display for Teraoka Seiko Model Digi DS-788RM Weighing Instrument

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