Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4C/240

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 Model Digi DS-772 Weighing Instrument

submitted by W W Wedderburn Pty Ltd
now of 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 1/04/16, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2approved – interim certificate issued	16/03/06
1	Pattern & variants 1 & 2 approved – certificate issued	6/06/06
2	Pattern amended – notification of change issued	16/06/08
3	Pattern & variants 1 & 2 reviewed & updated – certificate issued	7/03/12

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number ‘NMI 6/4C/240’ 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*.

TECHNICAL SCHEDULE No 6/4C/240

1. Description of Pattern approved on 16/03/06

A Teraoka model Digi DS-772 class (III) self-indicating single interval weighing instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg. Instruments may be fitted with one or two displays, either as shown in Figure 1 and/or with a single or double-sided remote display mounted on a column (Figure 2).

Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless two displays are present or unless the single display is located such that all primary indications are clearly and simultaneously displayed to both the vendor and the customer.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

Power is supplied by Wedderburn models RD-29 or RD-100 (12 V DC, 1 A) mains adaptor; the submittor should be consulted regarding the acceptability of alternative power supply units.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device 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 7.495 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 adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Provision is made for access to the calibration adjustments to be sealed by means of a destructible label over the adjustment switch access cover located on the underside of the instrument (Figure 3).

1.7 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Teraoka
Name or mark of manufacturer's agent	WEDDERBURN
Indication of accuracy class	(III)
Pattern approval mark for the instrument	NMI 6/4C/240
Maximum capacity	*Max* ..... g or kg #1
Minimum capacity	*Min* ..... g or kg #1
Verification scale interval	*e* = ... g or kg #1
Maximum subtractive tare	*T* = - ..... 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*.

In addition, instruments may need to carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording – refer to clause **1. Description of Pattern**.

2. Description of Variant 1 **approved on 16/03/06**

As single interval instruments of certain capacities as listed below.

(i) Of 6 kg maximum capacity with a verification scale interval of 0.002 kg. A semi-automatic subtractive tare device of up to 2.998 kg capacity may be fitted; and

(ii) Of 30 kg maximum capacity with a verification scale interval of 0.010 kg. A semi-automatic subtractive tare device of up to 14.990 kg capacity may be fitted.

3. Description of Variant 2 **approved on 16/03/06**

As multi-interval instruments of certain capacities as listed below:

(i) 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.

(ii) 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.

(iii) With a verification scale interval (e_1) of 0.005 kg up to 15 kg and with a verification scale interval (e_2) of 0.010 kg from 15 kg up to the maximum capacity of 30 kg.

The tare capacity does not exceed Max_1, i.e. the capacity of the low range.

Instruments are marked with the 'Maximum capacity' and with the 'Verification scale interval' for both interval ranges, in addition to the other data specified in clause **1.7 Descriptive Markings and Notices**.

TEST PROCEDURE No 6/4C/240

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*.

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

FIGURE 6/4C/240 – 1

Teraoka Model Digi DS-772 Weighing Instrument

FIGURE 6/4C/240 – 2

Typical Column-mounted Display

FIGURE 6/4C/240 – 3

Typical Sealing

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