



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Cancellation
Certificate of
Approval No 6/4C/208**

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

This is to certify that the approval for use for trade granted in approval 6/4C/208
in respect of the

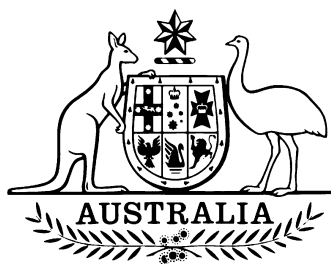
Teraoka Model Digi DS-470SS Weighing Instrument

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 September 2005.

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, appearing to be 'J. G. T.', written in a cursive style.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/4C/208

Issued under Regulation 63
of the
National Measurement Regulations 1999

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

Teraoka Model Digi DS-470SS 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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 June 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/208 and only by persons authorised by the submitter.

It is the submitter'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.

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

DESCRIPTIVE ADVICE

Pattern: approved 11 May 2000

- A Teraoka model Digi DS-470SS single-interval self-indicating weighing instrument of 6 kg maximum capacity.

Variants: approved 11 May 2000

1. The model DS-470SS of 15 kg or 30 kg maximum capacity.
2. The model DS-470 of 6 kg or 15 kg maximum capacity.
3. The model DS-450 of 6 kg or 15 kg maximum capacity.

Technical Schedule No 6/4C/208 describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/208 dated 28 June 2000
Technical Schedule No 6/4C/208 dated 28 June 2000 (incl. Test
Procedure)
Figures 1 to 3 dated 28 June 2000

Signed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 6/4C/208

Pattern: Teraoka Model Digi DS-470SS Weighing Instrument.

Submittor: W W Wedderburn Pty Ltd
90 Parramatta Road
SUMMER HILL NSW 2130.

1. Description of Pattern

A Teraoka model Digi DS-470SS single-interval self-indicating weighing instrument (Figure 1) of 6 kg maximum capacity with a verification scale interval of 0.001 kg.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

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 and/or a keyboard-entered pre-set subtractive tare device, each of up to maximum capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

Instruments are provided with adjustable feet and a level indicator. Adjacent to the level indicator is a notice stating 'instrument must be level when in use', or similar wording.

1.5 Verification/Certification Provision

Provision is made for the application of a verification/certification 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 under the load receptor.

1.7 Additional Features

Instruments may be fitted with a facility for 'Max' and 'Min' values to be entered to indicate a target range, for a visual and audible indication of when the target is reached and for switching of outputs relating to the target range.

Indications other than the indications of measured mass (i.e. gross, tare, net) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

1.8 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Essae Teraoka, India
Name or mark of manufacturer's agent	Wedderburn
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Maximum subtractive tare	T = - kg #
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 6/4C/208

* These markings shall also be shown near the display of the result if they are not already located there.

Unless T = Maximum capacity of the instrument.

In addition, instruments carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variants

2.1 Variant 1

The model DS-470SS in other capacities as listed below.

- Of 15 kg maximum capacity with a verification scale interval of 0.002 kg.
- Of 30 kg maximum capacity with a verification scale interval of 0.005 kg.

2.2 Variant 2

The model DS-470 (Figure 2) in capacities as listed below. This model has the same features as the pattern but is in a different housing.

- Of 6 kg maximum capacity with a verification scale interval of 0.001 kg.
- Of 15 kg maximum capacity with a verification scale interval of 0.002 kg.

2.3 Variant 3

The model DS-450 (Figure 3) in capacities as listed below. This has the same features as the pattern except that it is not fitted with the target range facility. An integral printer may also be fitted.

As this instrument is not fitted with a numeric keypad, pre-set tare values are entered using the ← and ↑ keys.

- Of 6 kg maximum capacity with a verification scale interval of 0.001 kg.
- Of 15 kg maximum capacity with a verification scale interval of 0.002 kg.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance 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 on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5e$ for loads $2\,000 < m \leq 10\,000$.

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FIGURE 6/4C/208 - 1



Teraoka Model Digi DS-470SS Weighing Instrument

6/4C/208
28 June 2000

FIGURE 6/4C/208 - 2



Model DS-470

FIGURE 6/4C/208 - 3



Model DS-450