



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Cancellation
Certificate of
Approval No 6/4D/293**

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
6/4D/293 issued in respect of the

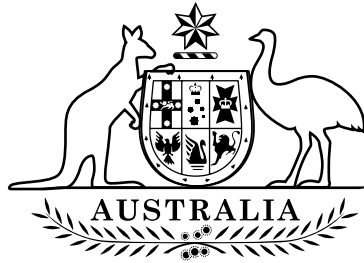
Teraoka Shanghai Digi Model DS-688F Weighing Instrument

submitted by Austech Weighing Pty Ltd
30 Amberley Crescent
Dandenong VIC 3175

has been cancelled in respect of new instruments as from 1 June 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

Certificate of Approval

No 6/4D/293

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 Shanghai Digi Model DS-688F Weighing Instrument

submitted by Austech Weighing Pty Ltd
30 Amberley Crescent
Dandenong VIC 3175.

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 2004, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/293 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 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 7 May 1999

- A Teraoka Shanghai Digi model DS-688F weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4D/293 describes the pattern.

FILING ADVICE

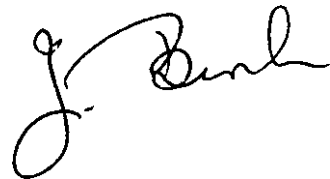
The documentation for this approval comprises:

Certificate of Approval No 6/4D/293 dated 28 June 1999

Technical Schedule No 6/4D/293 dated 28 June 1999 (incl. Test Procedure)

Figures 1 and 2 dated 28 June 1999

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.

A handwritten signature in black ink, appearing to read 'J. Burt', is written over a horizontal line.

TECHNICAL SCHEDULE No 6/4D/293

Pattern: Teraoka Shanghai Digi Model DS-688F Weighing Instrument.

Submittor: Austech Weighing Pty Ltd
30 Amberley Crescent
Dandenong VIC 3175.

1. Description of Pattern

A Teraoka Shanghai Digi model DS-688F self-indicating price-computing weighing instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

Instruments may be fitted with integral displays (Figure 1), or with the customer display mounted on a column as shown in Figure 2.

Instruments have unit price to \$999.99/kg, price to \$9999.90, and a price-look-up (PLU) facility.

Instruments are powered from mains supply or may be battery-operated.

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 of the pattern has a nominal range of approximately 15% 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 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 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a destructible label/s over the cover of the calibration access hole on the underside of the instrument and across the join of the top cover and the base of the instrument.

1.6 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.7 Markings

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	Teraoka Shanghai Digi
Name or mark of manufacturer's agent	Austech Weighing
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Tare capacity	T = - kg
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 6/4D/293

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

TEST PROCEDURE

Instruments should be tested 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:

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

FIGURE 6/4D/293 - 1



Teraoka Shanghai Digi Model DS-688F Weighing Instrument

FIGURE 6/4D/293 - 2



With Column-mounted Customer Display