



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/4C/223
Change No 3

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

The following changes are made to the approval documentation for the

TEC Model SL4700-15-TP-AU Weighing Instrument

submitted by Toshiba TEC Australia Pty Ltd
 Unit 1, 9-11 South Street
 RYDALMERE NSW 2116.

In Certificate of Approval No 6/4C/223 dated 2 January 2004;

1. The Condition of Approval referring to the review of the approval should be amended to read:
 "This approval becomes subject to review on 1 November **2013**, and then every 5 years thereafter."
2. The FILING ADVICE should be amended by adding the following:
 "Notification of Change No 3 dated 20 January 2009"

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. K. T.', is written over a faint, circular official stamp.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 1670 Australia

Certificate of Approval

No 6/4C/223

Issued 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

TEC Model SL4700-15-TP-AU Weighing Instrument



submitted by **TEC Australia Pty Ltd**
6 Byfield Street
Macquarie Park NSW 2113.

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 November 2008 and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/223 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 NSC P 106.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 28 October 2003

- A TEC model SL4700-15-TP-AU single interval self-indicating weighing instrument of 15 kg maximum capacity.

Variant: approved 15 December 2003

1. A TEC model SL4700-15-RP-AU.

Technical Schedule No 6/4C/223 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/223 dated 2 January 2004
Technical Schedule No 6/4C/223 dated 2 January 2004 (incl. Test Procedure)
Figure 1 dated 2 January 2004

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No 6/4C/223

Pattern: TEC Model SL4700-15-TP-AU Weighing Instrument



Submittor: TEC Australia Pty Ltd
6 Byfield Street
Macquarie Park NSW 2113

1. Description of Pattern



A TEC model SL4700-15-TP-AU single interval self-indicating weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.002 kg.

Instruments may be fitted with one or two displays, which are either:

- (a) located remotely; or
- (b) mounted on a column located either remotely or attached to the instrument.

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.

Power is supplied by a 12 V DC supply, either from internal batteries or from an Avery Berkel type FW 1288 (12 V DC, 640 mA) mains adaptor or a FRIWO type FW 7400/12 (12 V DC, 1000 mA) mains adaptor; the submitter should be consulted regarding the acceptability of alternatives.

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 Display Check

A display check is initiated whenever power is applied.

1.3 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.

1.4 Verification/Certification Provision

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

1.5 Sealing Provision

Provision is made for the calibration adjustments of the instrument to be sealed by means of destructible adhesive labels applied over the calibration plug access cover (inside the battery compartment) and over the rectangular access hole near the centre of the underside of the instrument.

1.6 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Toshiba TEC Corporation
Name or mark of manufacturer's agent
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NSC No 6/4C/223
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument

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

1. Description of Variant 1

With an RS232 communication port in which case the instrument is known as a TEC model SL4700-15-RP-AU.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

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 $2\,000 < m \leq 10\,000$.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Notification of Change

Certificate of Approval No 6/4C/223

Change No 1

The following change is made to the approval documentation for the

TEC Model SL4700-15-TP-AU Weighing Instrument

submitted by **TEC Australia Pty Ltd**
6 Byfield Street
Macquarie Park NSW 2113.

In Certificate of Approval No 6/4C/223 dated 2 January 2004, the Condition of Approval referring to the review of the approval should be amended to read:

“This approval becomes subject to review on 1 November **2008**, and then every 5 years thereafter.”

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. H. T.', is located at the bottom right of the page.



Australian Government
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Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 6/4C/223
Change No 2

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

The following changes are made to the approval documentation for the

TEC Model SL4700-15-TP-AU Weighing Instrument

submitted by TEC Australia Pty Ltd
6 Byfield Street
Macquarie Park NSW 2113.

1. In Certificate of Approval No 6/4C/223 and its Technical Schedule both dated 2 January 2004, the references to the name and address of the submitter should be amended to read:
"Toshiba TEC Australia Pty Ltd
Unit 1, 9-11 South Street
RYDALMERE NSW 2116"
2. In Certificate of Approval No 6/4C/223 dated 2 January 2004, the FILING ADVICE should be amended by adding the following:
"Notification of Change No 1 dated 26 February 2004
Notification of Change No 2 dated 11 October 2006"
3. In Technical Schedule No 6/4C/223 dated 2 January 2004, clause **1. Description of Pattern** should be amended to read, in part:
"... with a verification scale interval of 0.002 or **0.005 kg.**"

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. H. T.', located at the bottom right of the page.

FIGURE 6/4C/223 – 1



TEC Model SL4700-15-TP-AU Weighing Instrument