

# National Standards Commission



## Certificate of Approval No 6/4D/247

Issued under Regulation 9  
of the  
National Measurement (Patterns of Instruments) Regulations

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

TEC Model SL21-15 Weighing Instrument

submitted by TEC Australia Pty Ltd  
(formerly TEC Retail Systems & Office Products Pty Ltd)  
Unit 6-8 Byfield Street  
North Ryde NSW 2113.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Bink'.

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/2/93.  
This approval expires in respect of new Instruments on 1/2/94.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/247 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 drawings and specifications 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.

Auxiliary devices used with this Instrument shall comply with the requirements of General Supplementary Certificates Nos S1/0 and/or S2/0, as appropriate.

### DESCRIPTIVE ADVICE

**Pattern:** approved 1/2/88

- A TEC model SL21-15 dual-Interval self-Indicating price-computing weighing instrument of 15 kg maximum capacity.

**Variant:** approved 1/2/88

1. A model SL21-06 dual-Interval self-Indicating price-computing weighing instrument of 6 kg maximum capacity

Technical Schedule No 6/4D/247 describes the pattern and variant 1.

**Variant:** approved 5/3/90

2. With price-look-up (PLU) facility.

Technical Schedule No 6/4D/247 Variation No 1 describes variant 2.

### FILING ADVICE

Certificate of Approval No 6/4D/247 dated 18/3/88 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/247 dated 1/5/90  
Technical Schedule No 6/4D/247 dated 18/3/88  
Technical Schedule No 6/4D/247 Variation No 1 dated 1/5/90  
Test Procedure No 6/4D/247 dated 18/3/88  
Figure 1 dated 18/3/88



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No 6/4D/247

Pattern: TEC Model SL21-15 Weighing Instrument.

Submittor: TEC Retail & Office Products Pty Ltd  
Unit B, 6-8 Byfield Street  
North Ryde NSW 2113.

### 1. Description of Pattern

A dual-interval self-indicating price-computing weighing instrument (Figure 1) with a verification scale interval of 0.002 kg up to 6 kg and with a verification scale interval of 0.005 kg from 6 kg up to the maximum capacity of 15 kg. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

#### 1.1 Zero

Zero is automatically corrected to within  $\pm 0.25e$  whenever the instrument comes to rest within  $0.5e$  of zero. If the instrument comes to rest outside that range but within the zero reset range, zero may be reset by pressing the zero button. The zero light illuminates whenever zero is within  $0.2e$ .

#### 1.2 Display Check

A display check is initiated whenever power is applied.

#### 1.3 Tare

A semi-automatic subtractive taring device of up to 5.99 kg capacity may be fitted. On removal of the tare mass, the mass indicator shall blank or show non-numerical characters or show the tare mass as a negative quantity.

#### 1.4 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/247
Accuracy class	(III)
Low range	
Maximum capacity	Max      .... kg *
Verification scale interval	e = d =    .... kg *
High range	
Maximum capacity	Max      .... kg *
Verification scale interval	e = d =    .... kg *
Minimum capacity	Min      .... kg *
Maximum subtractive tare	T =    -    .... kg

\* Repeated close to each reading face.

#### 1.5 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.

1.6 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

A model SL21-06 dual-interval self-indicating price-computing weighing instrument with a verification scale interval of 0.001 kg up to 3 kg and with a verification scale interval of 0.002 kg from 3 kg up to the maximum capacity of 6 kg. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

A semi-automatic subtractive taring device of up to 2.998 kg capacity may be fitted.



## NATIONAL STANDARDS COMMISSION

### TEST PROCEDURE No 6/4D/247

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104. The maximum permissible error applicable is that for the range in which the measurement is made, using the scale interval of the range.

The maximum permissible errors are:

- $\pm 0.5e$  for loads between 0 and 500e;
- $\pm 1.0e$  for loads between 501e and 2000e; and
- $\pm 1.5e$  for loads above 2000e.

#### 1. Zero Range

The maximum range of operation of the zero setting device should not exceed 4% of the maximum capacity. The device shall be capable of both negative and positive adjustments of at least one quarter of the zero adjustment range. With zero balance indicated apply a load of, say, 3.5% of maximum capacity and press the zero button; the instrument should not rezero.

#### 2. Load Test (Dual-interval instruments)

Test loads are to be applied to the instrument in not less than 6 steps increasing to maximum capacity, followed by decreasing loads in not less than 6 steps to zero load. The loads should be selected such that there are 3 approximately equal steps in each range, but avoiding the changeover point of the ranges.



6/4D/247  
1/5/90

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**TECHNICAL SCHEDULE No 6/4D/247**

**VARIATION No 1**

**Pattern:** TEC Model SL21-15 Weighing Instrument.

**Submittor:** TEC Australia Pty Ltd  
Unit B, 6-8 Byfield Street  
North Ryde NSW 2113.

**1. Description of Variant 2**

With a price-look-up (PLU) facility operated via an additional Integral keyboard.

# National Standards Commission



## NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/247

CHANGE No 1

The following change is made to the approval documentation for the

TEC Model SL21-15 Weighing Instrument

submitted by TEC Australia Pty Ltd  
6-8 Byfield Street  
North Ryde NSW 2113.

In Technical Schedule No 6/4D/247 dated 18/3/88, clause 1. **Description of Pattern** is amended by adding the following:

"Instruments may be in an alternative housing and known as model SL-2200."

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

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## National Standards Commission



### NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/247

CHANGE No 2

The following change is made to the approval documentation for the

TEC Model SL21-15 Weighing Instrument

submitted by TEC Australia Pty Ltd  
6-8 Byfield Street  
North Ryde NSW 2113.

In Certificate of Approval No 6/4D/247 dated 1 May 1990, the Condition of Approval referring to the expiry of the approval should be amended to now read:

"This approval expires in respect of new instruments on 1 April 1995."

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. Henry', written in a cursive style.





# National Standards Commission

## Notification of Change

### Certificate of Approval No 6/4D/247

### Change No 3

The following change is made to the approval documentation for the

TEC Model SL21-15 Weighing Instrument

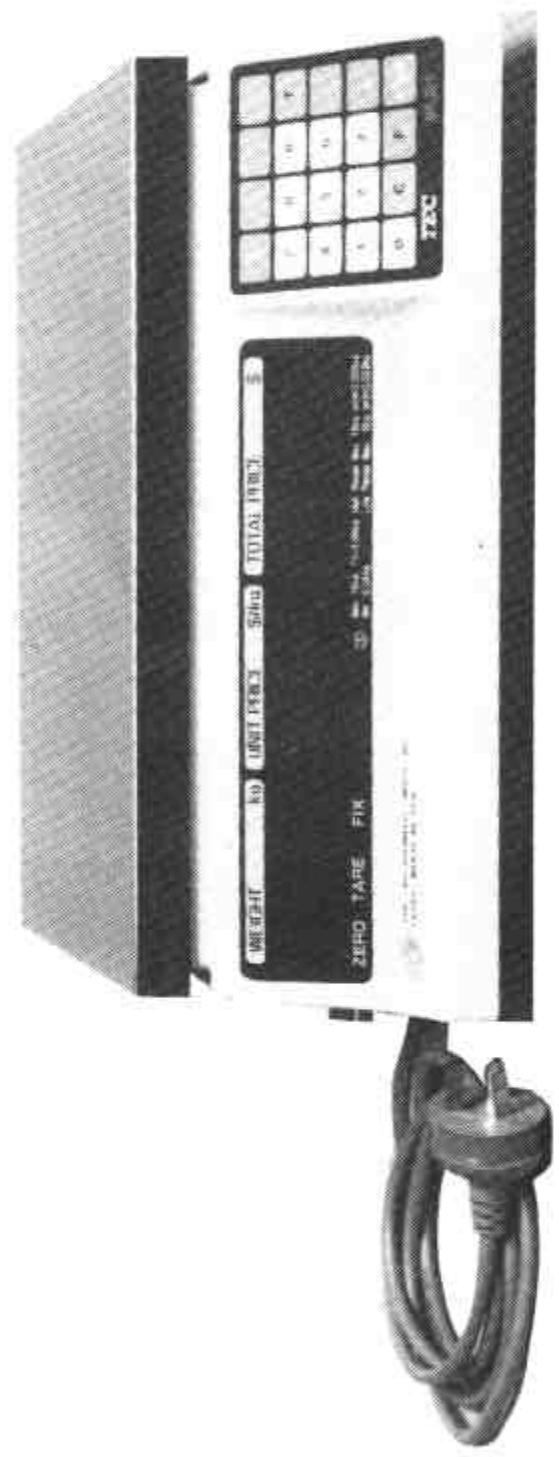
submitted by TEC Australia Pty Ltd  
6-8 Byfield Street  
North Ryde NSW 2113.

In Certificate of Approval No 6/4D/247 dated 1 May 1990, the Condition of Approval referring to the expiry of the approval (previously amended by Notification of Change No 2 dated 13 December 1994), should now be amended to read:

“This approval expires in respect of new instruments on 1 January 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.

FIGURE 6/40/247 - 1



TEC SL21-15 Weighing Instrument