

# National Standards Commission



## Certificate of Approval

**No 6/4D/267**

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

Berkel Model CX12 Weighing Instrument

submitted by GEC Avery Australia Limited  
12 Rachael Close  
Silverwater NSW 2141.

**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 is subject to review on or after 1/4/98.  
This approval expires in respect of new instruments on 1/4/99.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/267 and only by persons authorised by the submittor.

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

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.

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

### DESCRIPTIVE ADVICE

**Pattern:** approved 9/3/93

- A Berkel model CX12 multi-interval self-indicating weighing instrument of 15 kg maximum capacity.

**Variant:** approved 9/3/93

1. With a preset taring device.

**Variant:** approved 17/5/93

2. With integral printer and known as a model CX15.

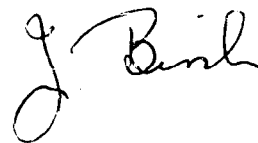
Technical Schedule No 6/4D/267 describes the pattern and variants 1 and 2.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/267 dated 23/7/93  
Technical Schedule No 6/4D/267 dated 23/7/93 (incl. Test Procedure)  
Figures 1 and 2 dated 23/7/93

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.





# National Standards Commission

## TECHNICAL SCHEDULE No 6/4D/267

**Pattern:** Berkel Model CX12 Weighing Instrument

**Submitter:** GEC Avery Australia Limited  
12 Rachael Close  
Silverwater NSW 2141.

### 1. Description of Pattern

A Berkel model CX12 multi-interval self-indicating price-computing weighing instrument 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. Instruments have unit price to \$999.99/kg, price to \$9999.99, a price-look-up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

The pattern may be as shown in Figure 1 or with the purchaser indicator within the main housing.

#### 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 instrument has an initial zero-setting device with a nominal range of 20% of the maximum capacity of the instrument.

#### 1.2 Tare

A semi-automatic subtractive taring device of up to 2 kg capacity may be fitted.

#### 1.3 Display Check

A display check is initiated whenever power is applied or when the TEST button is pressed.

#### 1.4 Levelling

The instrument is provided with adjustable feet.

#### 1.5 Verification/Certification Provision and Sealing Provision

Provision is made for a verification/certification mark to be applied.

Instruments shall be sealed using the sealing screw and plate provided at the rear left-hand corner.

## 1.6 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/267
Accuracy class	III
Maximum capacity	High Max ..... kg *
Verification scale interval	e=d= ..... kg *
Maximum capacity	Low Max ..... kg *
Verification scale interval	e=d= ..... kg *
Minimum capacity	Min ..... kg *
Maximum subtractive tare	T = - ..... kg

\* Repeated adjacent to each reading face.

## 2. Description of Variants

### 2.1 Variant 1

With a keyboard-entered preset tare device. Instruments shall be marked NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

### 2.2 Variant 2

Model CX15 (Figure 2) which is fitted with an integral ticket printer, and which has a different keyboard and display to the pattern.

## TEST PROCEDURE

Instruments should be tested in conjunction 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, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within  $\pm 0.25e$  at no load, are:

- $\pm 0.5e$  for loads from 0 to 500e;
- $\pm 1.0e$  for loads over 500e up to 2000e; and
- $\pm 1.5e$  for loads over 2000e.

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

FIGURE 6/4D/267 - 1



Berkel Model CX12 Weighing Instrument

FIGURE 6/4D/267 - 2.



Berkel Model CX15 Weighing Instrument