

# National Standards Commission



## Certificate of Approval

**No 6/9C/243**

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

CSC Model FW Weighing Instrument

submitted by Colonial Weighing Australia Pty Ltd  
(formerly Colonial Scale Company Pty Ltd)  
5 Sara Grove  
Tottenham VIC 3012

**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 1/9/96.  
This approval expires in respect of new instruments on 1/9/97.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/243 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.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

### DESCRIPTIVE ADVICE

**Pattern:** approved 5/8/91

- A CSC model FW self-indicating weighing instrument of 150 kg maximum capacity.

Technical Schedule No 6/9C/243 describes the pattern.

**Variants:** approved 28/3/94

1. Of 60 kg maximum capacity.

Technical Schedule No 6/9C/243 Variation No 1 describes variant 1.

### FILING ADVICE

Certificate of Approval No 6/9C/243 dated 22/1/92 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/243 dated 25/4/94  
Technical Schedule No 6/9C/243 dated 22/1/92 (incl. Test Procedure)  
Technical Schedule No 6/9C/243 Variation No 1 dated 25/4/94  
Figures 1 to 2 dated 22/1/92

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 6/9C/243

**Pattern:** CSC Model FW Weighing Instrument.

**Submitter:** Colonial Scale Company Pty Ltd  
5 Sara Grove  
Tottenham VIC 3012

#### 1. Description of Pattern

A CSC model FW self-indicating weighing instrument of 150 kg maximum capacity and approved for use with up to 3 000 verification scale intervals.

##### 1.1 Basework

The model FW basework (Figures 1 and 2) has a NMB model C2L1-150K load cell of 150 kg capacity mounted directly between the main frame and the weighing platform frame.

The load receptor has a nominal size of 520 mm x 420 mm.

##### 1.2 Indicator

A UWE model FW digital indicator is used (Figure 1).

###### 1.2.1 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  $\pm 0.25e$ .

The indicator has an initial zero-setting device with a nominal range of 17% of the maximum capacity of the instrument.

###### 1.2.2 Display Check

A display check is initiated whenever the ON/OFF button is pressed.

###### 1.2.3 Tare

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

### 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 a verification/certification mark to be applied.

### 1.5 Markings

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/243
Accuracy class	III
Maximum capacity	Max..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = d = ..... kg *
Maximum subtractive tare	T = - ..... kg

\* These are repeated adjacent to each reading face.

## 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, 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  $2000e$ .



## National Standards Commission

TECHNICAL SCHEDULE No 6/9C/243

VARIATION No 1

**Pattern:** CSC Model FW Weighing Instrument.

**Submitter:** Colonial Weighing Australia Pty Ltd  
(formerly Colonial Scale Company Pty Ltd)  
5 Sara Grove  
Tottenham VIC 3012

### 1. Description of Variant 1

A CSC model FW self-indicating weighing instrument of 60 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

#### 1.1 Basework

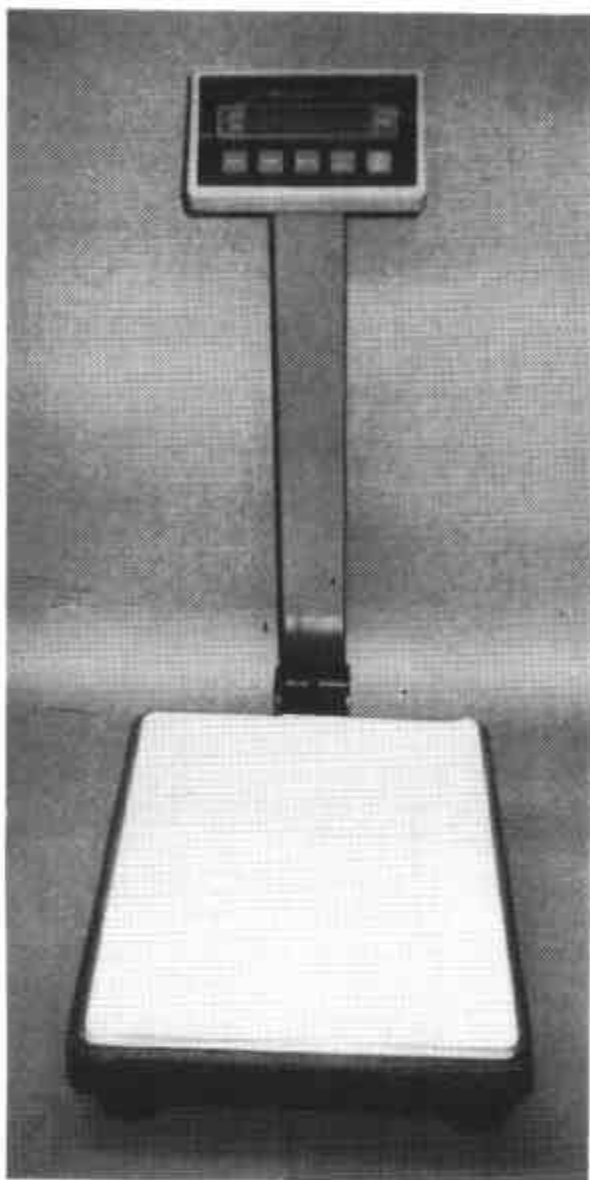
The model FW basework (Figures 1 and 2) has a Minebea NMB model C2L1-100K load cell of 100 kg capacity mounted directly between the main frame and the weighing platform frame.

The load receptor has a nominal size of 520 mm x 420 mm.

#### 1.2 Indicator

A UWE model FW digital indicator is used (Figure 1).

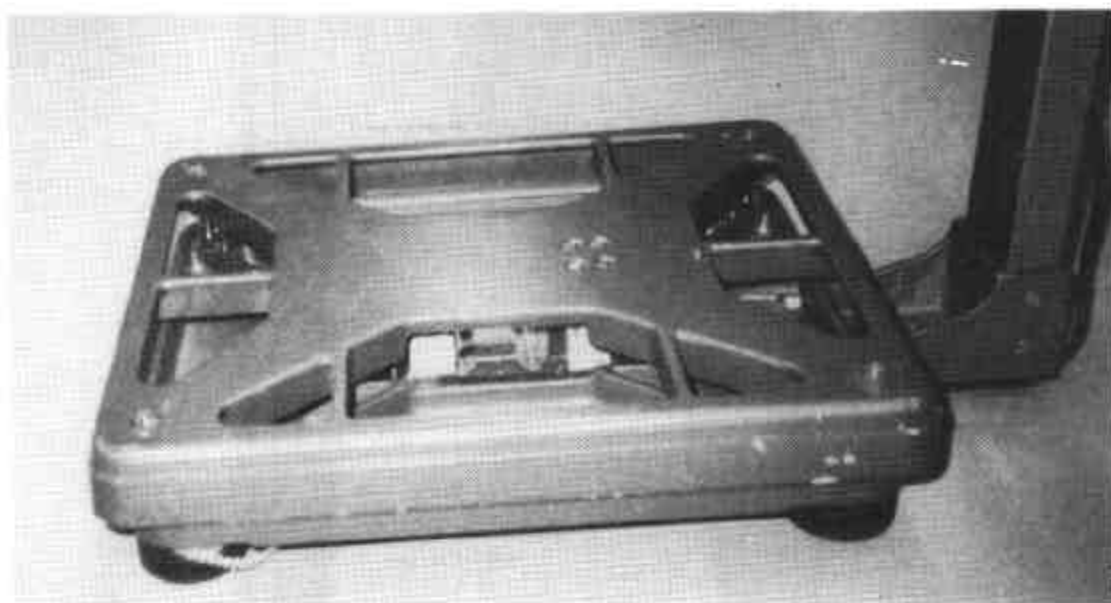
FIGURE 6/9C/243 - 1



CSC Model FW Weighing Instrument

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FIGURE 6/9C/243 - 2



Model FW Basework