

# National Standards Commission



## Certificate of Approval

**No 6/9C/233**

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

RCM Products Model PS 4000 Weighing Instrument

submitted by RCM Products Pty Ltd  
23 Potato Point Road  
Bodalla NSW 2545.

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. Benh'.

### 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/233 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.

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

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.

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

The pattern as approved herein or with substitute load cells and/or indicator, and in other capacities, shall comply with General Certificate No 6B/0.

### DESCRIPTIVE ADVICE

**Pattern:** approved 7/8/91

An RCM Products model PS 4000 weighing instrument of 4 000 kg maximum capacity.

Technical Schedule No 6/9C/233 describes the pattern.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/233 dated 16/9/91  
Technical Schedule No 6/9C/233 dated 16/9/91 (incl. Test Procedure)  
Figures 1 and 2 dated 16/9/91



# National Standards Commission

## TECHNICAL SCHEDULE No 6/9C/233

**Pattern:** RCM Products Model PS 4000 Weighing Instrument

**Submittor:** RCM Products Pty Ltd  
23 Potato Point Road  
Bodalla NSW 2545.

### 1. Description of Pattern

An RCM Products model PS 4000 self-indicating weighing instrument of 4 000 kg maximum capacity and approved for use with up to 2 000 verification scale intervals.

#### 1.1 Basework

The model PS 4000 basework (Figure 1) has the platform directly supported by 4 load cells.

#### 1.2 Load Cells

Four Precision Transducers model LS2500 load cells of 2500 kg capacity are used as described in the documentation of NSC approval No S224, and mounted as shown in Figure 2.

#### 1.3 Indicator

A Gedge Systems model GS1650 digital indicator is used as described in the documentation of NSC approval No S193A. When the model PS 4000 weighing instrument is used for livestock weighing only (and is so marked - refer cl. 1.5 **Markings**), the automatic zero tracking device may reset zero to within  $\pm 0.25e$  whenever the instrument returns to zero within  $2e$ .

#### 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 numbers	- instrument	NSC No 6/9C/233
	- load cells	NSC No S .....
	- indicator	NSC No S .....
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.

**Note:** May also be marked FOR LIVESTOCK WEIGHING ONLY (refer cl. 1.3 Indicator).

## TEST PROCEDURE

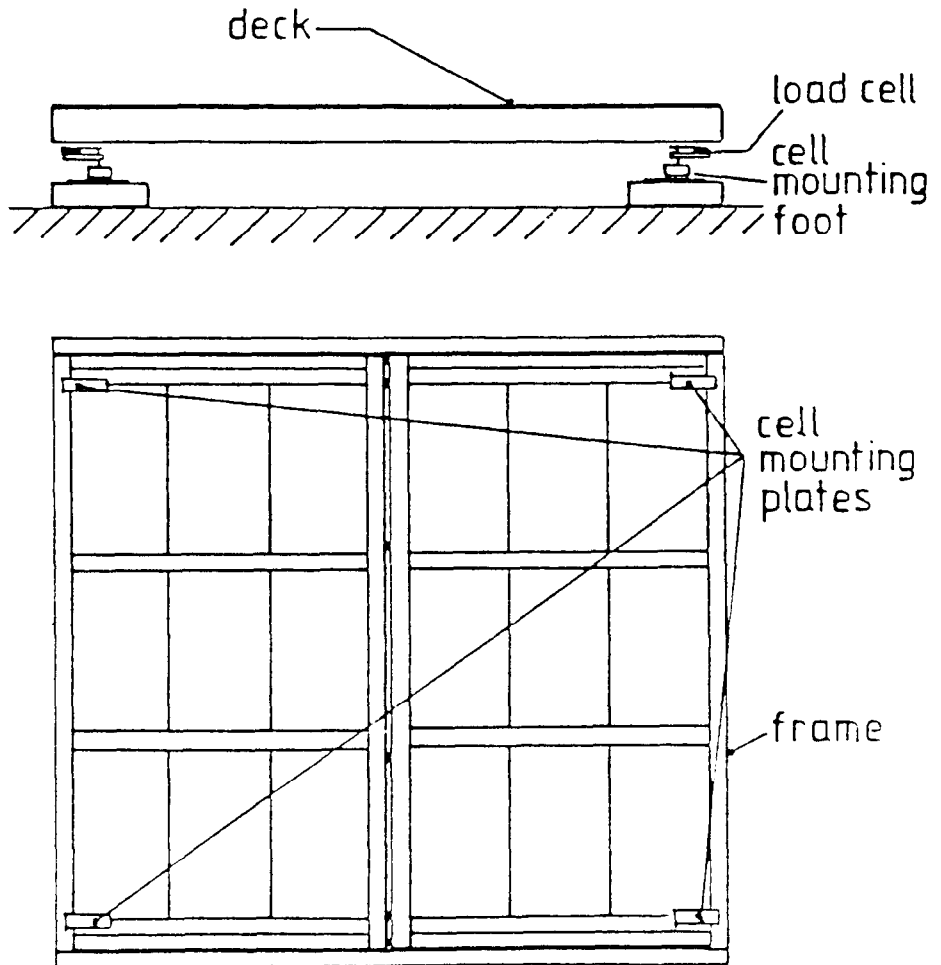
Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the Inspector's Handbook.

### 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:

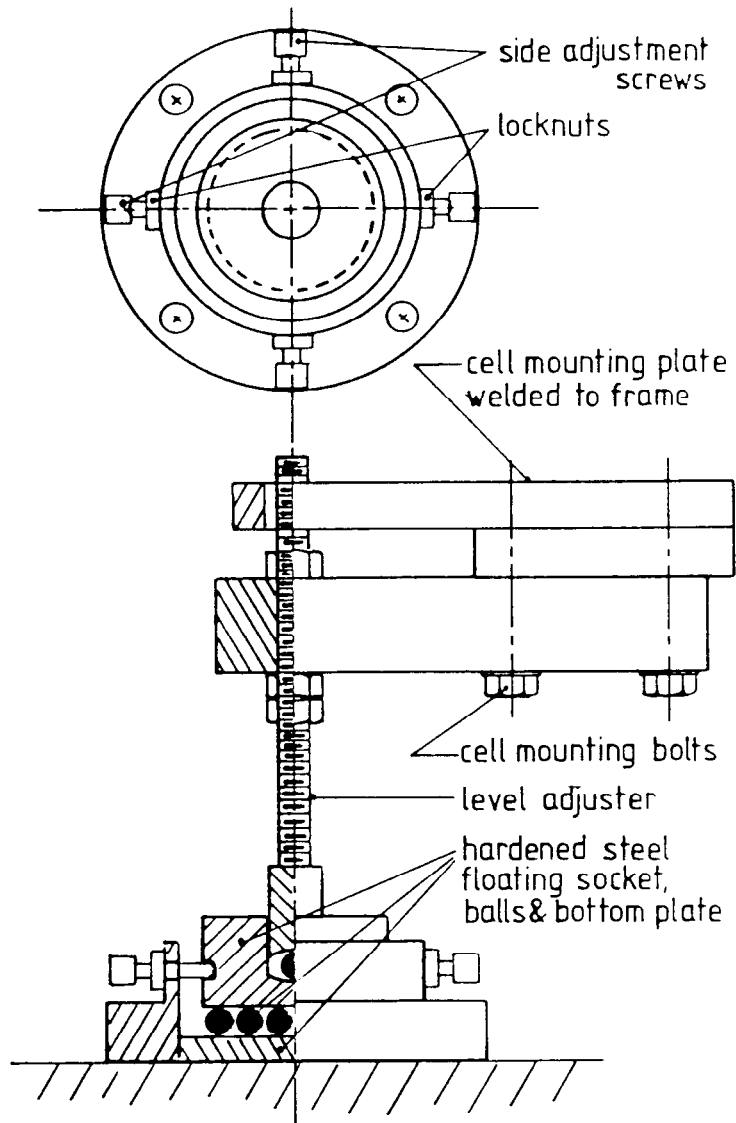
- $\pm 0.5e$  for loads from 0 to 500e; and
- $\pm 1.0e$  for loads over 500e up to 2 000e.

FIGURE 6/9C/233 - 1



RCM Model PS 4000 Weighing Instrument

FIGURE 6/9C/233 - 2



Showing Load Cell Mounting