

# National Standards Commission



## Certificate of Approval No 6/4C/37A

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

Suprema Model K3 Weighing Instrument

submitted by W W Wedderburn Pty Ltd  
90 Parramatta Road  
Summer Hill NSW 2130.

This Certificate is issued upon completion of a review of NSC approval No 6/4C/37.

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. Birch'.

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/95.

This approval expires in respect of new instruments on 1/3/96.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/37A 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 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.

### DESCRIPTIVE ADVICE

**Pattern:** approved 22/2/90

- A Suprema model K3 self-indicating weighing instrument of 5000 g maximum capacity.

**Variants:** approved 22/2/90

1. In certain other capacities.
2. The K3M series of up to 5000 g maximum capacity.

Technical Schedule No 6/4C/37A describes the pattern and variants 1 and 2.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/37A dated 16/4/90  
Technical Schedule No 6/4C/37A dated 16/4/90 (incl. Test Procedure)  
Figures 1 and 2 dated 16/4/90



# National Standards Commission

## TECHNICAL SCHEDULE No 6/4C/37A

**Pattern:** Suprema Model K3 Weighing Instrument

**Submittor:** W W Wedderburn Pty Ltd  
90 Parramatta Road  
Summer Hill NSW 2130

### 1. Description of Pattern

A Suprema model K3 self-indicating weighing instrument of 5000 g maximum capacity, in 10 partial weighing ranges, with a verification scale interval of 10 g (Figures 1 and 2).

A single unit-weight is moved to select the range, indicated by flash dials. Berranger-type levers and a pushrod and pendulum resistant mechanism are used, suitable for dials having up to 1.25 scale intervals per degree with a maximum full scale deflection of 41°.

#### 1.1. Zero Setting

Zero is set by means of loose material in a balancing chamber under the load receptor.

#### 1.2 Levelling

Four levelling feet are provided and adjacent to the level indicator is a notice advising that the instrument must be level when in use, or similar wording.

#### 1.3 Markings

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

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/37A
Accuracy class	III
Maximum capacity	Max ..... g *
Minimum capacity	Min ..... g *
Verification scale interval	e=d= ..... g *

\* Repeated adjacent to each reading face

**Note:** On instruments used for trading direct with the public, the dial shall be marked so that the weighing range between zero and minimum capacity is clearly differentiated.

#### 1.4 Verification Provision

Provision is made for a verification mark to be applied.

## 2. Description of Variants

### 2.1 Variant 1

In other capacities, and with a number of partial weighing ranges as listed in Table 1.

### 2.2 Variant 2

With a maximum capacity of 5000 g and with 5 partial weighing ranges, and known as a model K3M (refer to Table 1). The Indicator has up to 2 scale intervals per degree with a maximum full scale deflection of 50°.

TABLE 1

Model	Capacity	Value of Verification Scale Interval	Number of Ranges
K3	1000 g	2 g	10
	2500 g	5 g	5
	5000 g	10 g	10
K3M	1000 g	2 g	5
	2500 g	5 g	5
	5000 g	10 g	5

## TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

### Maximum Permissible Error at Verification/Certification

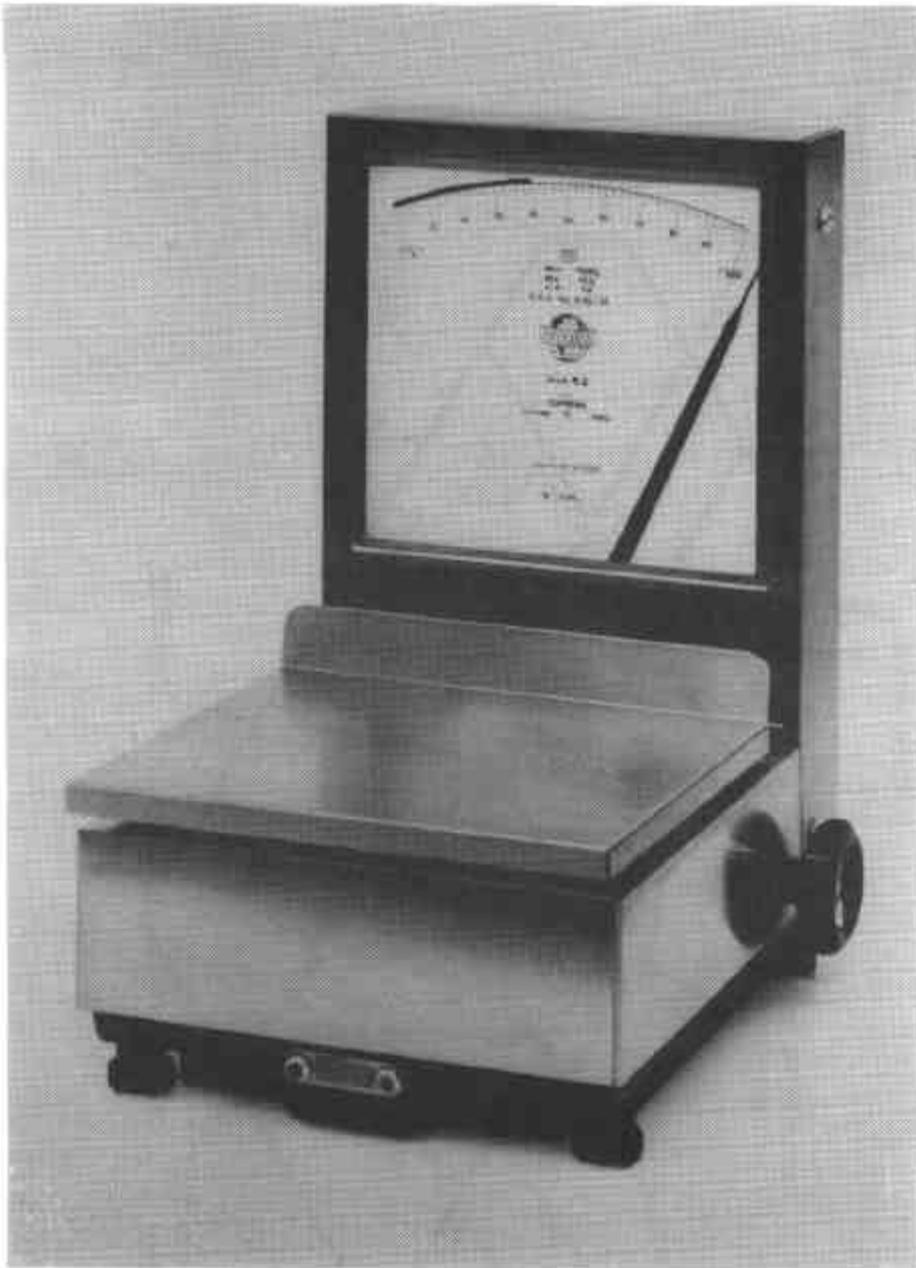
The maximum permissible error for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the Instrument adjusted to zero within  $\pm 0.25e$  at no load, is:

$\pm 0.5e$  for loads from 0 to 500e.

### Zero Test

- Check that zero is set within  $\pm 0.25e$ .
- Check that when a unit-weight is selected to change the indication from full scale deflection on one partial weighing range to zero indication on the next range, the difference in the errors of the two indications is not greater than the absolute value of the maximum permissible error.

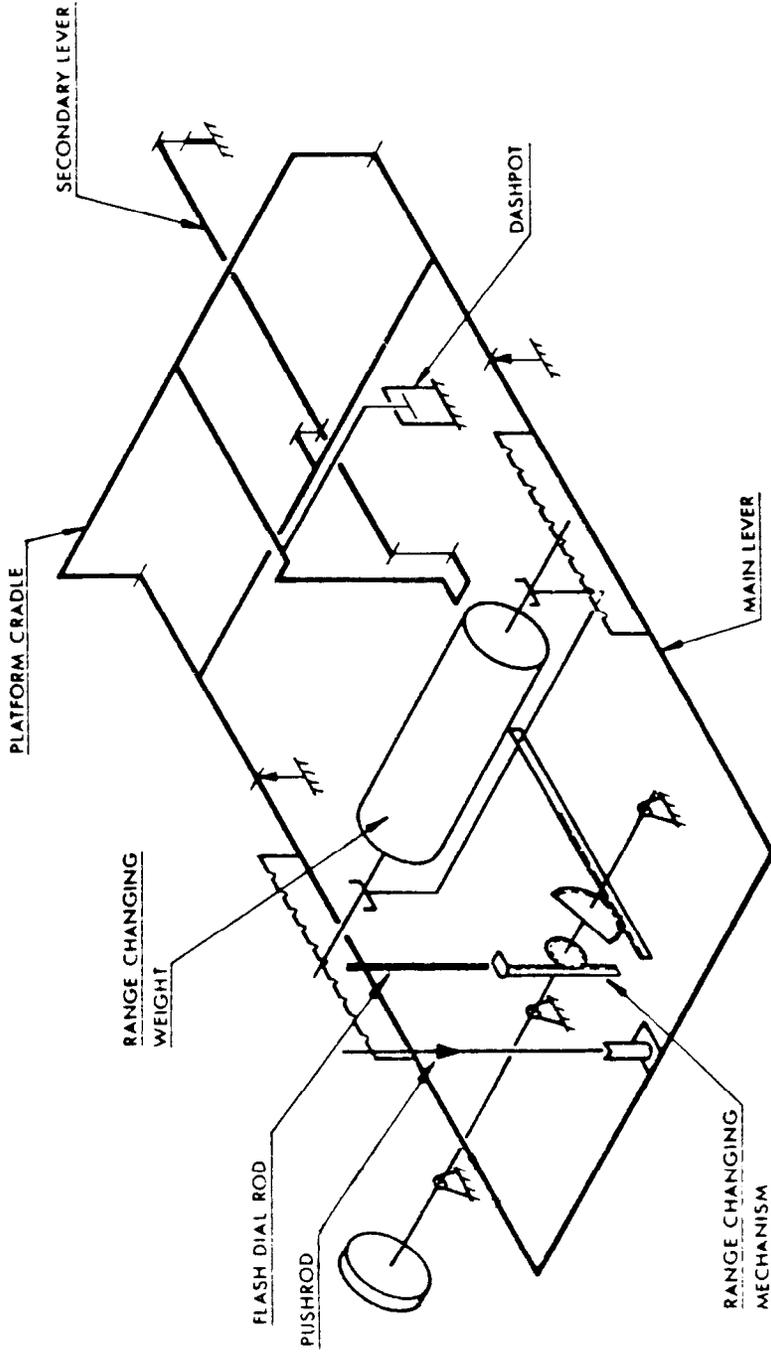
Figure 6/4C/37A- 1



Supremo Model K3 Weighing Instrument

6/4C/37A  
16/4/90

Figure 6/4C/37A - 2



Lever System and Range-changing Mechanism