

National Standards Commission



Certificate of Approval

No 6/9C/239

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

United Weighing Model USD-6000 Weighing Instrument

submitted by United Weighing Australia Pty Ltd
Cnr Cranwell and Annesley Streets
Braybrook VIC 3019.

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 1/1/96.

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

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/239 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.

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 an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

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 cell and/or indicator, and in other capacities, shall comply with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

Pattern: approved 3/12/90

. A United Weighing model USD-6000 self-indicating weighing instrument of 6 000 kg maximum capacity.

Variants: approved 3/12/90

1. In other capacities and with up to 3 000 verification scale intervals.
2. With a model USD3-15 3-lever basework.

Technical Schedule No 6/9C/239 describes the pattern and variants 1 and 2.

FILING ADVICE

The documentation for this approval comprises.

Certificate of Approval No 6/9C/239 dated 13/5/91
Technical Schedule No 6/9C/239 dated 13/5/91 (incl. Test Procedure)
Figures 1 and 2 dated 13/5/91



National Standards Commission

TECHNICAL SCHEDULE No 6/9C/239

Pattern: United Weighing Model USD-6000 Weighing Instrument.

Submitter: United Weighing Australia Pty Ltd
Cnr Cranwell and Annesley Streets
Braybrook VIC 3019.

1. Description of Pattern

A United Weighing model USD-6000 self-indicating weighing instrument of 6 000 kg maximum capacity and with a verification scale interval of 2 kg.

1.1 Basework

The model USD basework (Figure 1) uses a 2-lever system to support the load receptor with a single load cell mounted at the nose-end of the transfer lever. The basework is positioned above ground, with or without loading ramps, or let into a pit in which case the platform is level with the ground. If the instrument is not in a pit or permanently fixed in place, it shall be fitted with a level indicator, adjacent to which is the notice INSTRUMENT MUST BE LEVEL WHEN IN USE.

The load receptor has a nominal size of 1 200 mm x 1 200 mm.

1.2 Load Cell

A Kelba model KA-1000-C3 load cell of 1 000 kg capacity is used as described in the documentation of NSC approval No S155, or another Commission-approved load cell as shown in Figure 1.

1.3 Indicator

An AND Mercury model AD-4322 digital indicator is used as described in the documentation of NSC approval No S250.

1.4 Verification Provision

Provision is made for a verification 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/239
- load cell	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.

2. Description of Variants

2.1 Variant 1

In other capacities and with up to 3 000 verification scale intervals.

2.2 Variant 2

With a model USD3-15 3-lever basework as shown in Figure 2, which also shows an alternative Commission-approved load cell to that shown in Figure 1.

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.

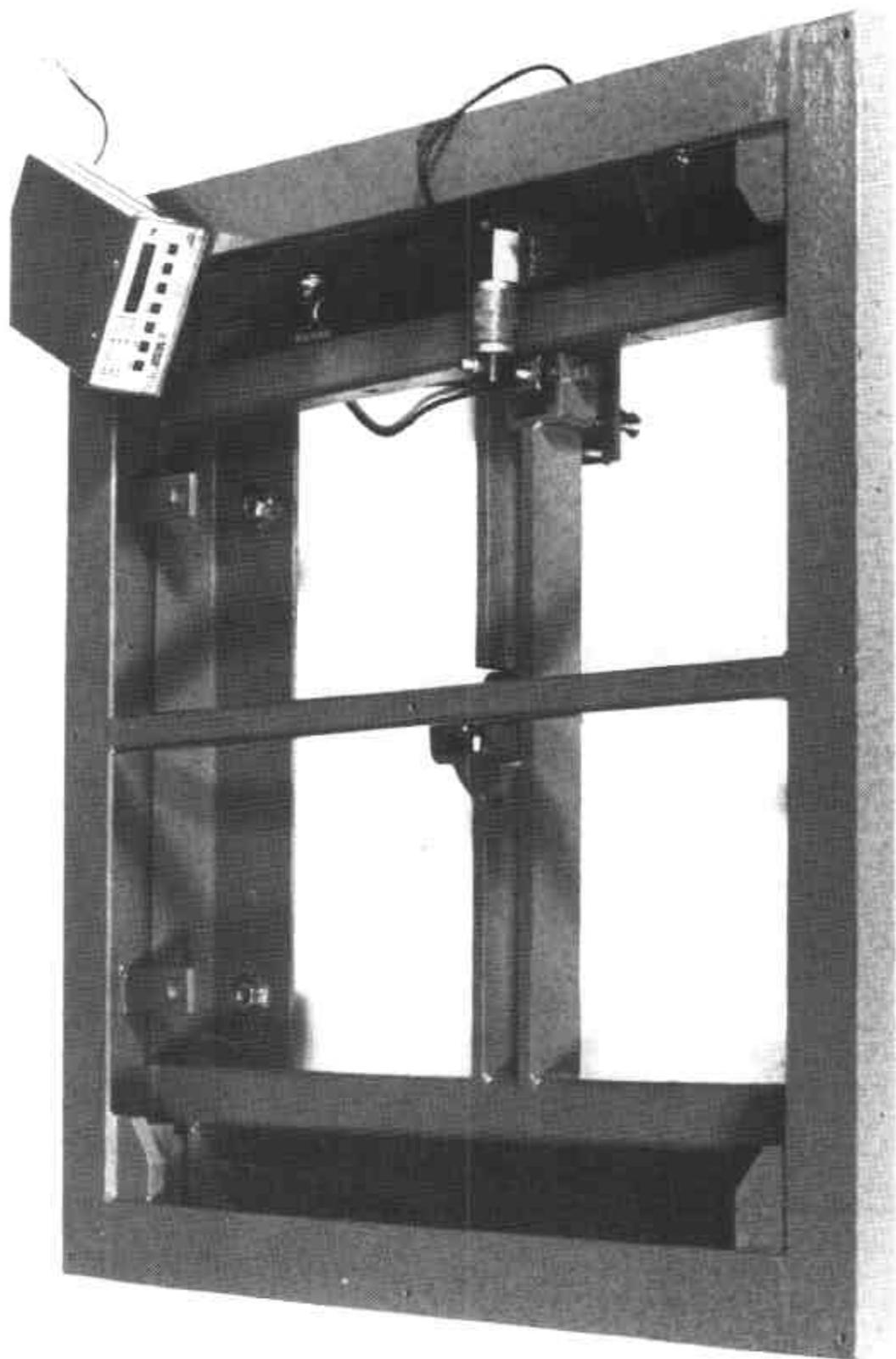
Maximum Permissible Errors at Verification/Certification

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 $2\,000e$; and
- $\pm 1.5e$ for loads over $2\,000e$.

6/9C/239
13/5/91

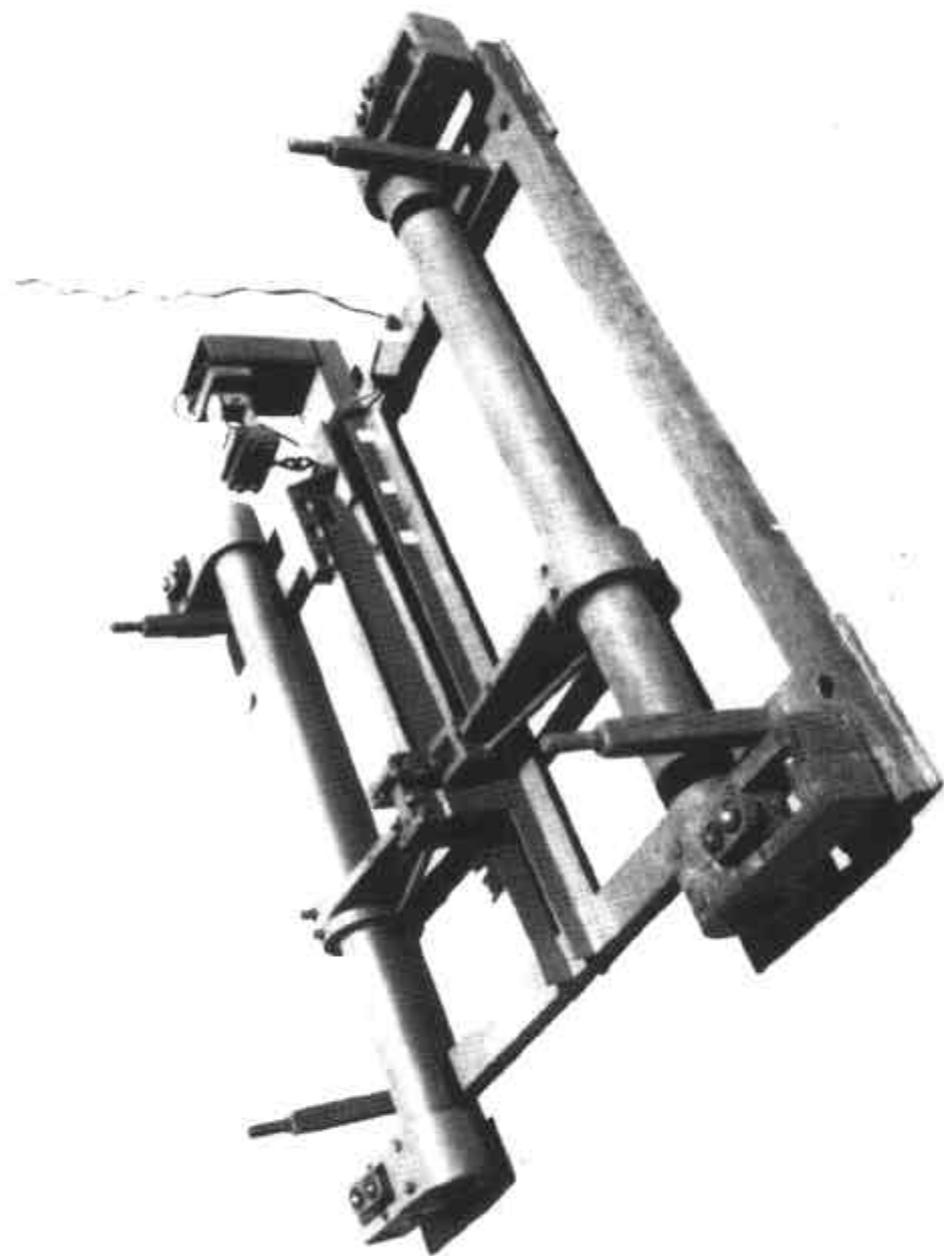
FIGURE 6/9C/239 - 1



United Weighing Model USD-6000 Weighing Instrument

6/9C/239
13/5/91

FIGURE 6/9C/239 - 2



(Model USD3-15 Lever System (