



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation Certificate of Approval No 6/9C/224A

This is to certify that the approval for use for trade granted in respect of the

Wedderburn Model WS004SBH Weighing Instrument

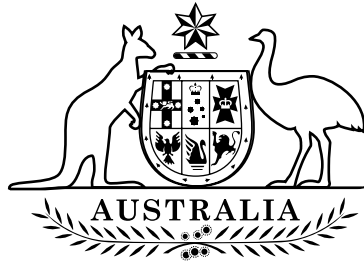
submitted by W W Wedderburn Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

has been cancelled in respect of new instruments as from 1 July 2001.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.





National Standards Commission

Certificate of Approval

No 6/9C/224A

Issued under Regulation 63
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

Wedderburn Model WS004SBH Weighing Instrument

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

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 becomes subject to review on 1 June 2000, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/224A 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 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 Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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

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 3 May 1995

- A Wedderburn model WS004SBH self-indicating weighing instrument of 3 000 kg maximum capacity.

Variants: approved 3 May 1995

1. With a modified model WS004SBH basework which does not have a baseframe.
2. Of up to 1500 kg maximum capacity.

Technical Schedule No 6/9C/224A describes the pattern and variants 1 & 2.

Variant: approved 9 November 1999

3. With a model WS004SL basework.

Technical Schedule No 6/9C/224A Variation No 1 describes variant 3.

FILING ADVICE

Certificate of Approval No 6/9C/224A dated 4 August 1997 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/224A dated 30 November 1999

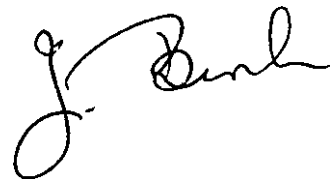
Technical Schedule No 6/9C/224A dated 4 August 1997 (incl. Test Procedure)

Technical Schedule No 6/9C/224A Variation No 1 dated 30 November 1999

Figures 1 to 5 dated 4 August 1997

Figure 6 dated 30 November 1999

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.

A handwritten signature in black ink, appearing to read 'J. Burt', is written in a cursive style.

National Standards Commission

TECHNICAL SCHEDULE No 6/9C/224A

Pattern: Wedderburn Model WS004SBH Weighing Instrument.

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

1. Description of Pattern

A Wedderburn model WS004SBH self-indicating weighing instrument of 3000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model WS004SBH basework (Figure 1) has the load receptor supported by means of ball-and-cup assemblies on four load cells fixed to the baseframe.

The load receptor has maximum nominal dimensions of 2.5 x 2.5 m.

1.2 Load Cells

Four Precision Transducers model PSB 1000-C3 load cells of 1000 kg maximum capacity are used and are mounted as shown in Figure 2. These load cells are also described in the documentation of NSC approval No S338.

1.3 Indicator

A Teraoka Seiko model DS-480 digital indicator (Figure 3) is used.

The indicator may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

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

1.3.1 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 initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

1.3.2 Tare

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

1.4 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.5 Sealing Provision

Provision is made for the calibration adjustments in the indicator to be sealed by means of a destructible label over a case retaining screw or across the join of the casing halves.

1.6 Markings

Instruments shall carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument	
Serial numbers of the load cells (#)	
Pattern approval mark for the instrument	NSC No 6/9C/224A

* These markings shall also be repeated near each reading face if they are not already located there.

Alternatively, these may be marked adjacent to the verification mark.

2. Description of Variants

2.1 Variant 1

With a modified model WS004SBH basework which does not have a baseframe and where self-aligning supporting feet are fitted directly to the load cells which directly support the load receptor (Figures 4 and 5).

2.2 Variant 2

Having the features of the pattern or variant 1 but of up to 1500 kg maximum capacity with up to 3000 verification scale intervals.

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 on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5e$ for loads $2\,000 < m \leq 10\,000$.

TECHNICAL SCHEDULE No 6/9C/224A
VARIATION No 1

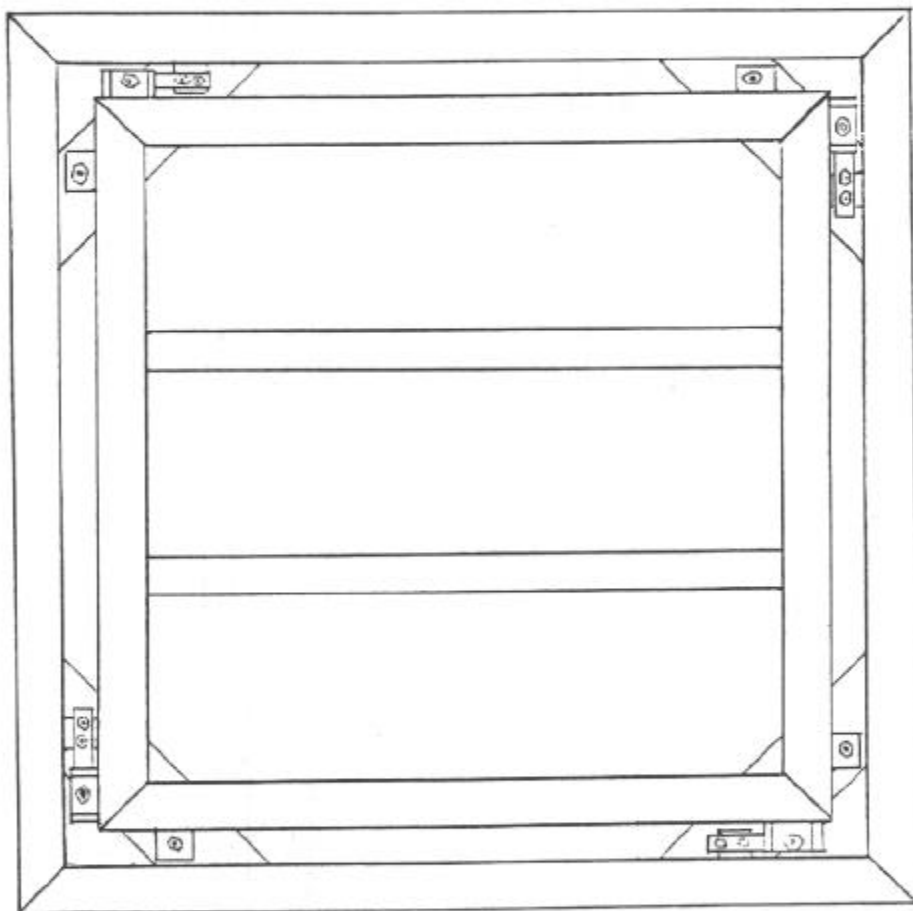
Pattern: Wedderburn Model WS004SBH Weighing Instrument.

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

1. Description of Variant 3

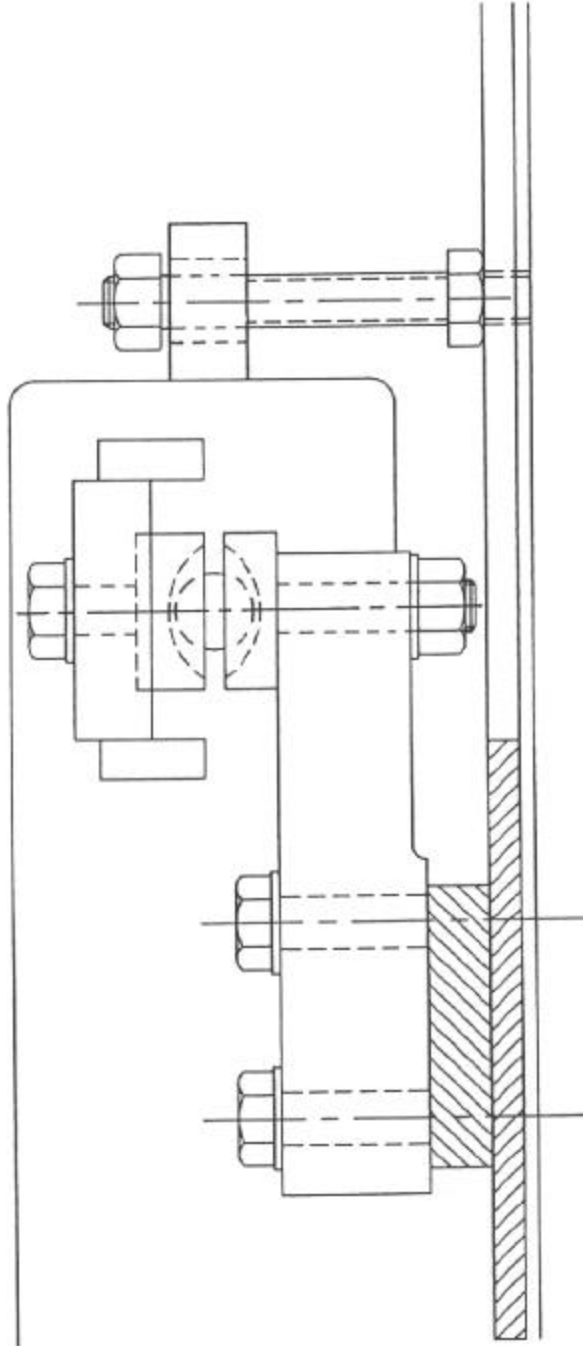
With a Wedderburn model WS004SL basework which is similar to variant 1, but has the single-plate low profile load receptor directly supported by the four load cells which are fitted with self-aligning supporting feet (Figure 6).

FIGURE 6/9C/224A - 1



Wedderburn Model WS004SBH Basework

FIGURE 6/9C/224A - 2



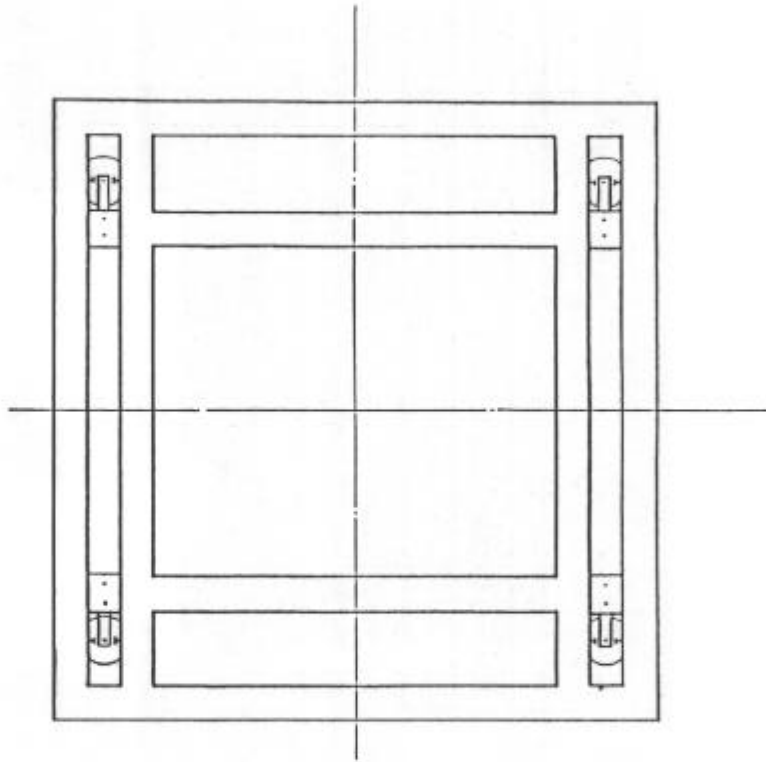
Showing Load Mounting - Pattern

FIGURE 6/9C/224A - 3



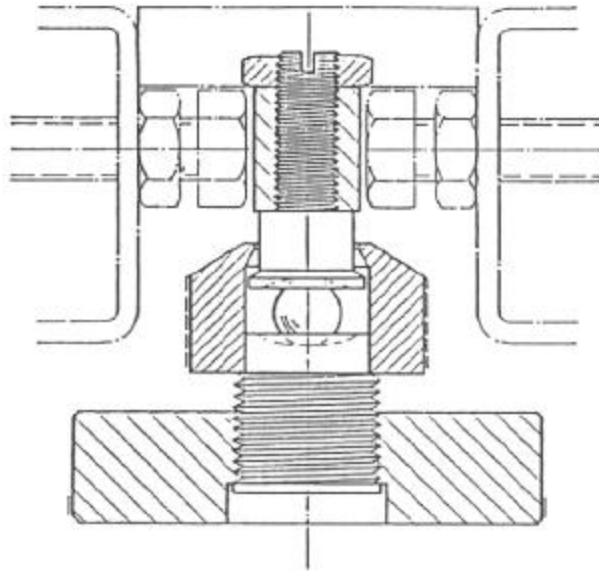
Teraoka Seiko Model DS-480 Indicator

FIGURE 6/9C/224A - 4



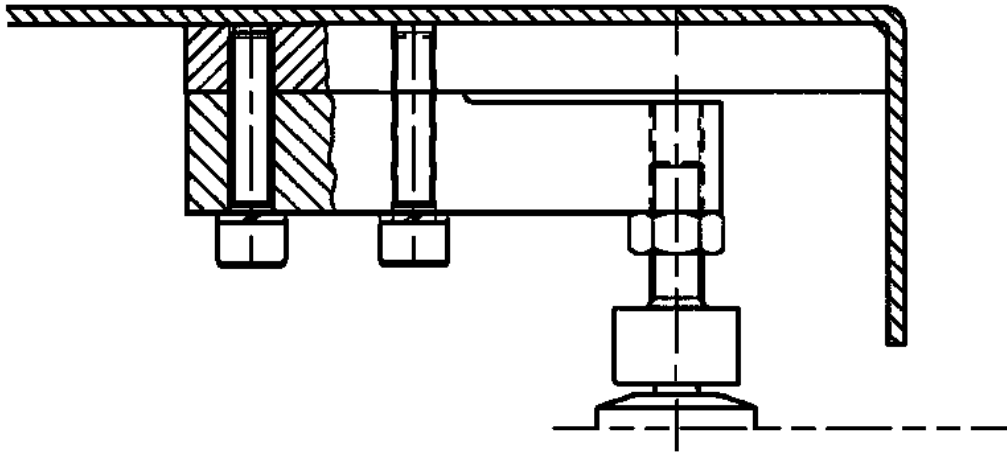
Modified Model WS004SBH Basework - Variant 1

FIGURE 6/9C/224A - 5

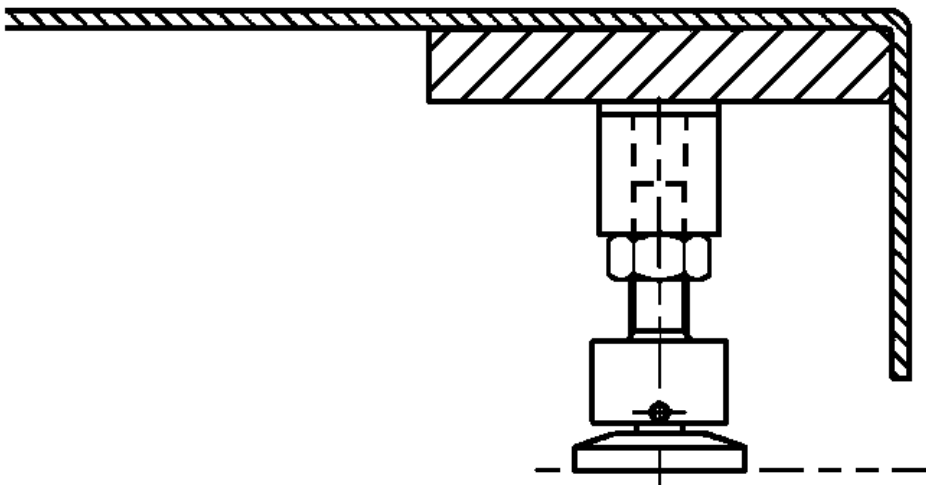


Showing Load Mounting - Variant 1

FIGURE 6/9C/224A - 6



Side View



End View

Showing Load Cell Mounting - Variant 3