NATIONAL STANDARDS COMMISSION

WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/79

This is to certify that an approval has been granted by the Commission that the pattern and variant of the

Wedderburn Model WS004 Platform Weighing Instrument

submitted by J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, New South Wales, 2130

are suitable for use for trade.

The approval is subject to review on or after 1/11/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/79.

The approval may be withdrawn if instruments are used other than in accordance with the drawings and specifications lodged with the Commission.

Condition of Approval

The load cells used shall be subject to regular certification by the Commission.

Signed
Executive Director

Descriptive Advice

Pattern: approved 22/9/83

. A platform weighing instrument of 2500 kg maximum capacity with up to 2500 scale intervals, comprising a lever basework with a Toledo model 0721 load cell and a Wedderburn model UMC 4000 indicator.

Variant: approved 22/9/83

1. With the indicator replaced by a Commission-approved dial indicator.

Technical Schedule No 6/9C/79 dated 25/10/83 describes the pattern and variant 1.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/79 dated 25/10/83
Technical Schedule No 6/9C/79 dated 25/10/83
Test Procedure No 6/9C/79 dated 25/10/83
Figure 1 dated 25/10/83.

25/10/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/79

Pattern: Wedderburn Model WS004 Platform Weighing Instrument

Submittor: J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, New South Wales, 2130.

1. Description of Pattern

A platform weighing instrument of 2500 kg maximum capacity with up to 2500 scale intervals, comprising a basework supported by a lever system and a Toledo load cell and with a Wedderburn digital indicator (Figure 1).

1.1 Basework

The basework is permanently fixed either above ground or let into a pit in which case the platform is level with the surround. The platform size and configuration may vary.

1.2 Load Cell

The load cell is a Toledo model 0721 shear beam load cell of 45 kg maximum capacity (NSC approval No S111) mounted as shown in Figure 1, and is approved for a maximum of 4000 scale intervals.

1.3 Indicator

The indicator is a Wedderburn model UMC 4000 (NSC approval No S138).

1.4 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Model number	
Serial number of the instrument	
NSC approval number	NSC No 6/9C/79
Accuracy class	(III)
Maximum capacity in the form	Max = ...*
Minimum capacity in the form	Min = ...*
Verification scale interval in the form	e = d = ...*
Maximum subtractive tare in the form	T = - .....

1.5 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

With the load cell and digital indicator replaced by a Commission-approved dial indicator.

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*These marking are repeated in the vicinity of the reading face, if not already there.

25/10/83

TEST PROCEDURE No 6/9C/79

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

The maximum permissible errors are:

± 0.5e for loads between 0 and 500e;
± 1.0e for loads between 501e and 2000e; and
± 1.5e for loads above 2000e.

1. Zero Range

Check that the range of the zero adjustment is not more than 4% of the maximum capacity (± 2% approximately). With zero balance indicated, apply a load of, say, 2.5% of maximum capacity to the instrument, and adjust the zero control; the instrument should not rezero.

2. Zero Test

(a) Check by means of Document 104, that when the zero light is lit, zero is set within 0.25e.

(b) As the automatic zero tracking device resets zero when the weighing mechanism is in equilibrium within 0.5 scale interval of zero, zero should be checked, with a load equal to, say, 10 scale intervals on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will then be 10e and 11e respectively.

3. Range of Indication

(a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this indicated mass the indicator should be blank.

(b) Below zero the indication may blank or the mass will be indicated, prefixed by a minus sign.

4. Taring

(a) Attempt to tare a mass above maximum capacity as determined in 3(a). On removal of the mass no tare should have been entered, and the indicator should display all zeroes.

(b) The tare function should reset the mass indicator to zero within 0.25e at any load within its tare capacity. This may be checked as described in 2(a) - Zero Test.

5. Test Loads

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

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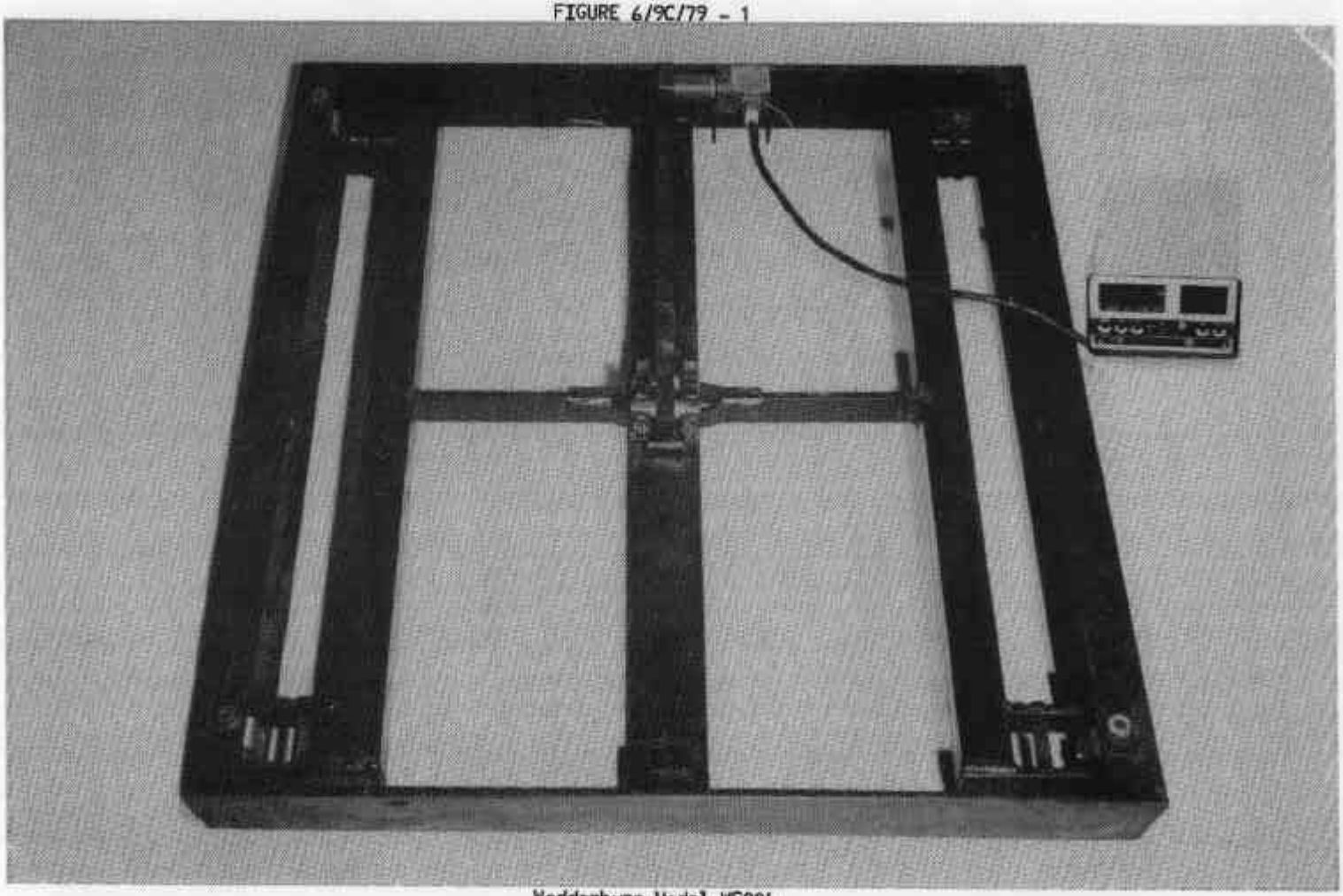
FIGURE 6/9C/79 - 1



Wedderburn Model WS004