Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 6/18/34

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Wedderburn Model WS-1200D Weighing Instrument

submitted by W W Wedderburn Pty Ltd
101 Williamson Road
Ingleburn NSW 2565

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.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on **1/05/18**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2 approved – interim certificate issued	26/04/02
1	Pattern & variants 1 & 2 approved – certificate issued	28/05/02
2	Variant 3 approved – certificate issued	18/02/05
3	Pattern & variants 1 to 3 reviewed – notification of change issued	1/08/07
4	Pattern & variants 1 to 3 reviewed & updated – certificate issued	28/08/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/18/34' 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 documentation lodged with the National Measurement Institute (NMI) 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 document NMI P 106.

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

The pattern as approved herein or with substitute approved indicators shall comply with General Certificate of Approval No 6B/0.

Note: New instruments manufactured under this approval shall only use load cells and/or indicators with current Supplementary Certificates of Approval.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

Dr A Rawlinson

TECHNICAL SCHEDULE No 6/18/34

1. Description of Pattern approved on 26/04/02

A Wedderburn model WS-1200D class (III) non-automatic overhead-track weighing instrument of 300 kg maximum capacity.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

The instrument operates from mains AC power (240 V AC, 50 Hz).

1.1 Trackwork

The model WS-1200D trackwork (Figure 1) is approved for use with up to 3000 verification scale intervals and has the weigh-rail up to 1250 mm long supported by two load cells.

1.2 Load Cells

Two Teraoka Seiko model PDP-300KG load cells of 450 kg capacity are used and mounted as shown in Figure 2.

Note that only this make, model and capacity of load cell shall be used. The load cell cable carries a tag with the model and serial numbers while the load cell body carries the marking ‘D600LB’.

For the purposes of calculations required by NSC General Certificate No 6B/0 when an alternative indicator is used, the following parameters may be used for the model PDP-300KG load cell.

Maximum capacity	450 kg
Input impedance	1100 ohms
Sensitivity	1.5 mV/V
Minimum value of verification scale interval	0.06 kg

The load cells may be supplied with cable lengths (from the load cell to the summing box) of from 450 to 3000 mm. However the length of cable supplied with the load cell shall not be cut.

1.3 Indicator

A Teraoka model DI-516 digital indicator is used. The indicator is also described in the documentation of approval NSC No S355.

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Provision is made for the calibration adjustments of the indicator to be sealed.

1.7 Descriptive Markings

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full	WEDDERBURN
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg #1
Minimum capacity	*Min* ..... kg #1
Verification scale interval	*e* = ... kg #1
Maximum subtractive tare	*T* = - ..... kg
Serial number of the instrument	……
Serial numbers of the load cells	..... #2
Pattern approval number for the instrument	NMI or NSC 6/18/34
Pattern approval number for the indicator	NMI or NSC No S...

#1 These markings are also shown near the display of the result if they are not already located there.

#2 Alternatively, these may be marked on a nameplate for the trackwork.

2. Description of Variant 1 **approved on 26/04/02**

The pattern with a Wedderburn model WS-600D trackwork which has the weigh-rail up to 600 mm long.

3. Description of Variant 2 **approved on 26/04/02**

With a Wedderburn model WS-300D trackwork (Figure 3) which has the weigh-rail up to 300 mm long supported by a single Teraoka Seiko model PDP-300KG load cell of 450 kg maximum capacity.

Note that only this make, model and capacity of load cell shall be used.

Instruments are of 300 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

4. Description of Variant 3 **approved on 1/5/07**

With a model WS-600DR or WS-1200DR trackwork which are similar to the model WS-600D or WS-1200D trackwork, respectively, but which have an alternative load cell mounting arrangement (Figure 4).

TEST PROCEDURE No 6/18/34

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

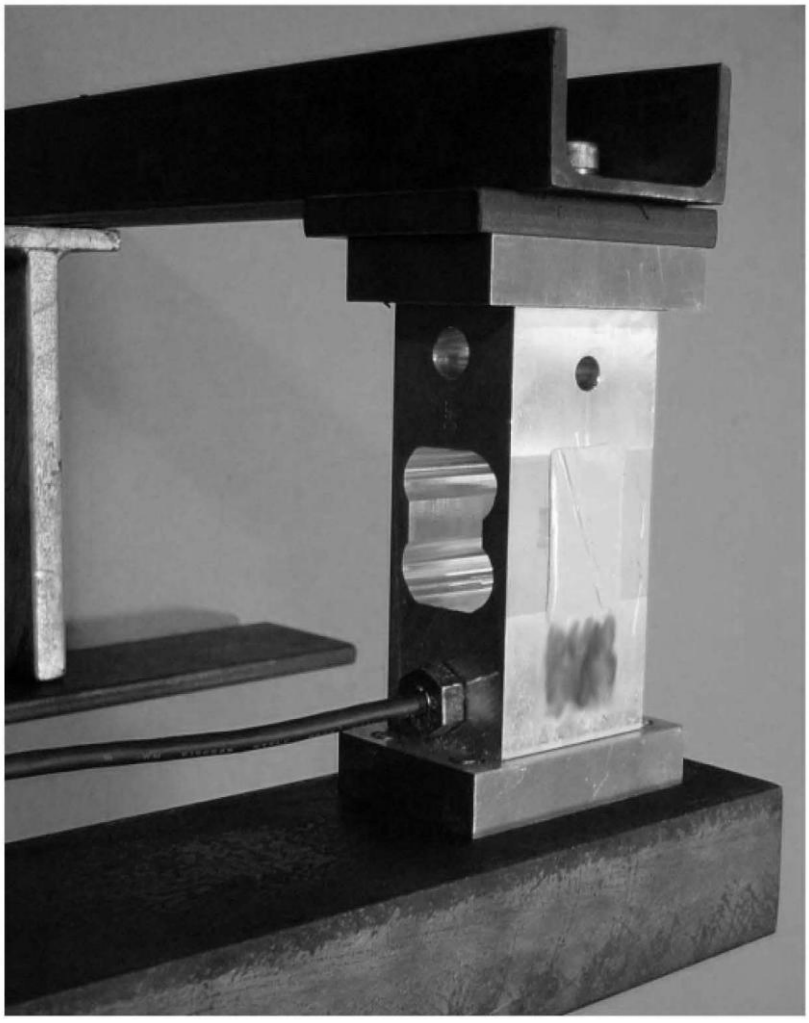
Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/18/34 – 1

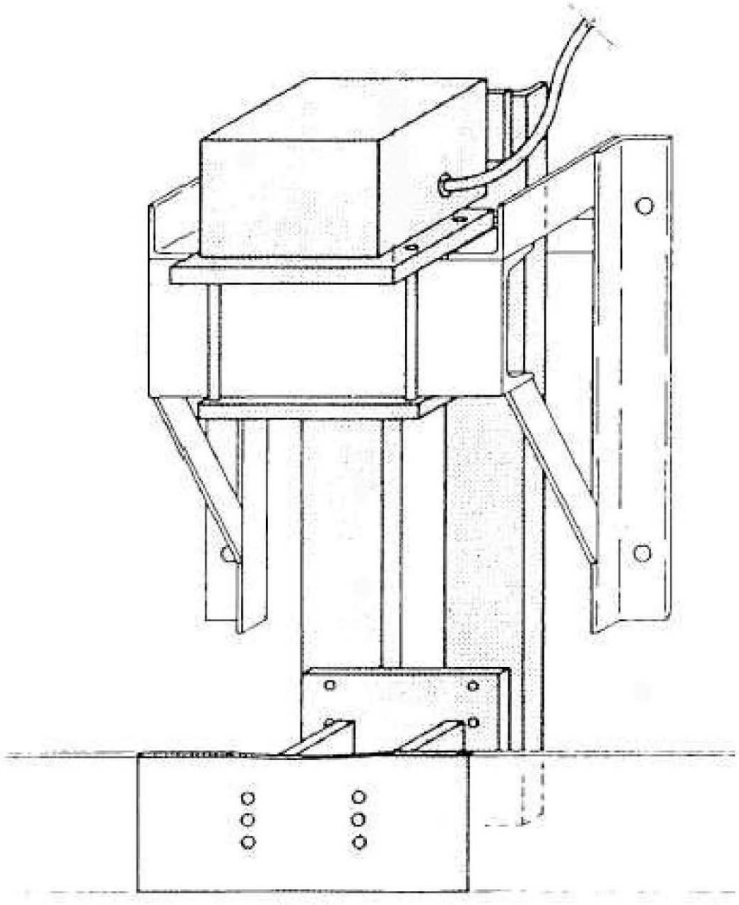
Wedderburn Model WS-1200D Trackwork (1200 mm Weigh-rail) – (The Pattern)

FIGURE 6/18/34 – 2



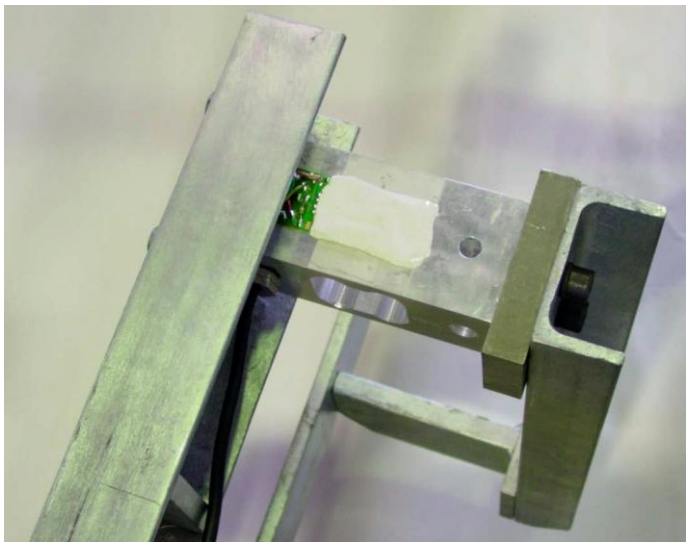
Load Cell Mounting for The Pattern (Model WS-1200D)

FIGURE 6/18/34 – 3



Wedderburn Model WS-300D Trackwork (Variant 2)

FIGURE 6/18/34 – 4



Model WS-600/1200 DR Load Cell Mounting – Variant 3

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