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

Certificate of Approval

NMI 6/9C/228B

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.

A'Asia Scales Model P3000 Weighing Instrument

submitted by Australasia Scales Pty Ltd
Unit 1, 944 Nudgee Road
Banyo QLD 4014

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 **1/12/19**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2 approved – interim certificate issued	7/11/01
1	Pattern & variants 1 to 4 approved – interim certificate issued	27/11/02
2	Pattern amended – notification of change issued	17/01/06
3	Pattern & variants 1 to 4 reviewed – notification of change issued	23/03/07
4	Variant 5 approved – interim certificate issued	6/11/14
5	Pattern & variants 1 to 5 amended, reviewed & updated – variant 6 approved – certificate issued	20/05/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) 6/9C/228B' 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 NMI-approved load cells and/or indicators, and in other capacities, or with different platform sizes, shall comply with General Certificate No 6B/0.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

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 6/9C/228B

1. Description of Pattern approved on 7/11/01

The A'Asia Scales model P3000 class (III) self-indicating non-automatic weighing instrument of 3000 kg maximum capacity and approved for use with up to 3000 verification scale intervals. May also be known as 'Australasia Scales' instruments of the same model.

1.1 Basework

The model P3000 basework (Figures 1 and 2) has the load receptor directly supported by means of ball-and-cup assemblies on load cells which are mounted on a subframe.

If approach ramps are provided care shall be taken to ensure that these do not interfere with the platform.

1.2 Load Cells

Four CAS model BSA-1t load cells of 1000 kg capacity are used mounted as shown in Figure 2. The load cells are described in the documentation of approval NMI No S444.

1.3 Indicator

A Rinstrum model R320 digital indicator is used. The indicator is described in the documentation of approval NMI No S420. Alternatively, a Systec model IT1000 indicator as described in approval NMI No S472 may be used (Figure 3).

1.4 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	A'Asia Scales Service Pty Ltd
Indication of accuracy class	(III)
Maximum capacity	*Max* ..... kg #
Minimum capacity	*Min* ..... kg #
Verification scale interval	*e* = ... kg #
Tare capacity (if less then *Max)*	*T* = - ..... kg
Serial number of the instrument	.....
Pattern approval mark for the instrument	NMI (or NSC) No 6/9C/228B
Pattern approval mark for the load cells	NMI No ...
Pattern approval mark for the indicator	NMI No ...

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

1.5 Levelling

Where instruments are liable to be tilted (i.e. they are not installed in a permanently fixed location) they are provided with adjustable feet and a level indicator. Adjacent to the level indicator is a notice stating 'instrument must be level when in use', or similar wording.

1.6 Sealing Provision

Provision is made for the calibration adjustments to be sealed as described in the approval documentation for the indicator.

1.7 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variant 1 approved on 7/11/01

Model P1500 in capacities from 100 kg up to 1499 kg and approved for use with up to 3000 verification scale intervals.

3. Description of Variant 2 approved on 7/11/01

Model P3000 in capacities from 1500 kg up to 14 999 kg and approved for use with up to 3000 verification scale intervals.

4. Description of Variant 3 approved on 27/11/02

Model P1500B in capacities from 100 kg up to 1499 kg and approved for use with up to 3000 verification scale intervals. The model P1500B basework does not have a supplementary baseframe; self-aligning supporting feet are fitted directly to the four load cells which directly support the platform (Figures 4 and 5).

5. Description of Variant 4 approved on 27/11/02

Model P3000B in capacities from 1500 kg up to 14 999 kg and approved for use with up to 3000 verification scale intervals. The model P3000B basework is similar to the P1500B basework as described for Variant 3.

6. Description of Variant 5 approved on 6/11/14

The A'Asia Scales model P3000 weighing instrument approved for use with up to 750 verification scale intervals fitted with a cattle crush type load receptor. The cattle crush is mounted on the load cells with mounting fixtures and the mounting fixtures are bolted to the concrete floor.

Note: The cattle crush may have mechanisms such as a pneumatic system for operation of the doors – is shall be ensured that these mechanisms do not adversely affect the weighing result.

7. Description of Variant 6 approved on 20/05/15

Alternative style model P3000 basework (Figure 6) in capacities from 1500 kg up to 14 999 kg and approved for use with up to 3000 verification scale intervals.

TEST PROCEDURE No 6/9C/228B

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.

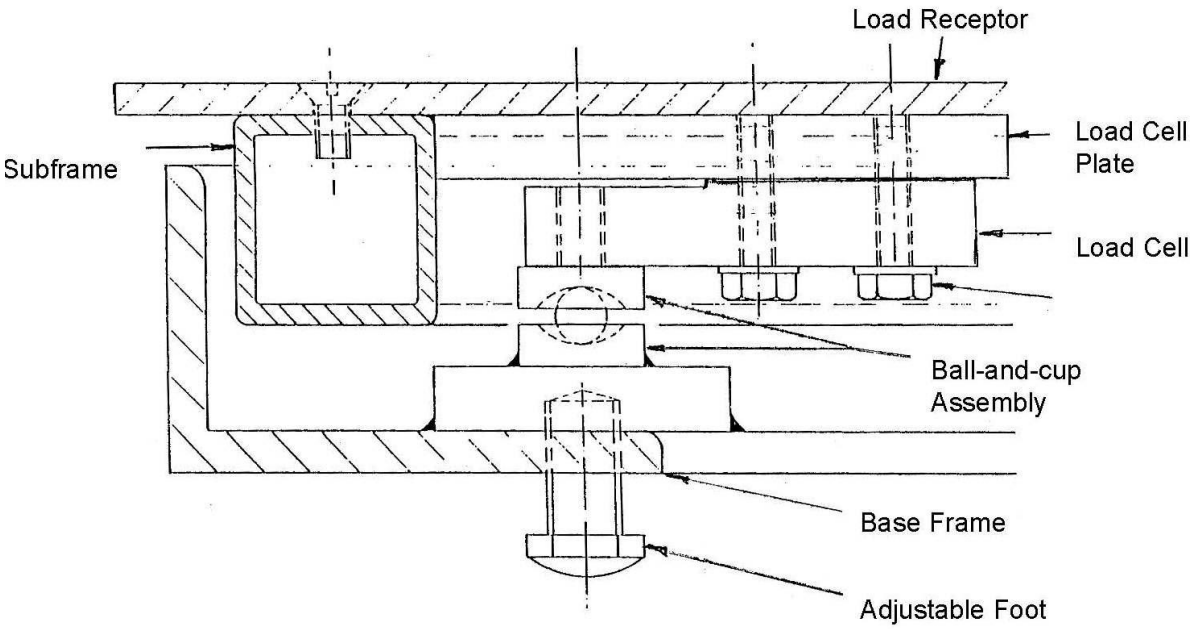
Maximum Permissible Errors

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

FIGURE 6/9C/228B – 1

A'Asia (or Australasia) Scales Model P3000 Basework (pattern)

FIGURE 6/9C/228B – 2



Basework Structure and Load Cell Mounting for the Model P1500/P3000 (pattern & variants 1 & 2)

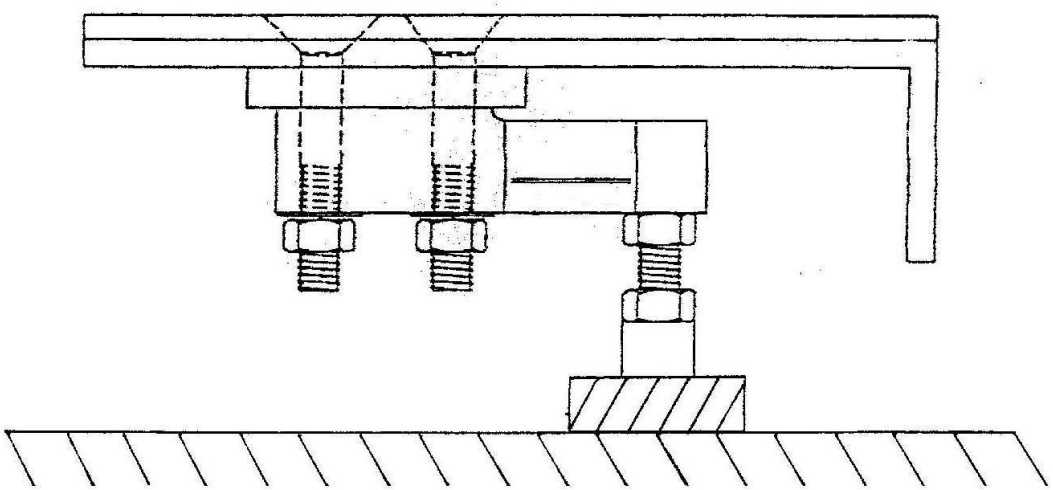
FIGURE 6/9C/228B – 3

Systec Model IT 1000 Indicator

FIGURE 6/9C/228B – 4

Model P1500B/P3000B Basework (variants 3 & 4)

FIGURE 6/9C/228B – 5



Load Cell Mounting for the Model P1500B/P3000B (variants 3 & 4)

FIGURE 6/9C/228B – 6

Alternative Style Model P3000 Basework and Model R320 Indicator (variant 6)

~ End of Document ~