



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval
No 6/4D/319

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

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

Adam Model AZ*plus* Weighing Instrument

submitted by Adam Equipment Co Ltd
Bond Avenue, Benbigh East Industrial Estate
Milton Keynes MK1 1SW
United Kingdom

has been cancelled in respect of new instruments as from 1 April 2011.

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

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the bottom.



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Certificate of Approval

No 6/4D/319

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

Adam Model *AZplus* Weighing Instrument

submitted by Adam Equipment Co Ltd
Bond Avenue, Benbigh East Industrial Estate
Milton Keynes MK1 1SW
United Kingdom.

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 September 2009, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4D/319' and only by persons authorised by the submitter.

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.

The National Measurement Institute 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.

DESCRIPTIVE ADVICE

Pattern: approved 12 August 2004

- An Adam model *AZplus* single interval self-indicating price-computing weighing instrument with a maximum capacity of 6 kg

Variants: approved 12 August 2004

1. With certain other capacities.
2. With the displays mounted on a column.

Technical Schedule No 6/4D/319 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/319 dated 11 October 2004
Technical Schedule No 6/4D/319 dated 11 October 2004 (incl. Test Procedure)
Figures 1 to 4 dated 11 October 2004

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

A handwritten signature in black ink, appearing to be 'J. G. T.', located in the bottom right corner of the page.

TECHNICAL SCHEDULE No 6/4D/319

Pattern: Adam Model *AZplus* Weighing Instrument
Submittor: Adam Equipment Co Ltd
Bond Avenue, Benbigh East Industrial Estate
Milton Keynes MK1 1SW United Kingdom

1. Description of Pattern

An Adam model *AZplus* single interval self-indicating price-computing weighing instrument (Figure 1) with a maximum capacity of 6 kg and a verification scale interval of 0.002 kg.

Instruments are fitted with integral displays and have unit price to \$9999.99/kg, price to \$9999.99, and a product look up (PLU) facility for storage of unit prices only.

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

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

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

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.5 Sealing Provision

Provision is made for the calibration adjustments to be sealed by:

- (a) Applying a wire and lead (or similar) seal through the screwed stud and the lug of the cover under the load receptor (Figure 2) thereby preventing separation of the top and bottom halves of the instrument; and
- (b) Applying a destructible adhesive label over the small access hole under the base and the foot at the front right of the instrument (Figure 3).

1.6 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.7 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Adam Equipment Co Ltd
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NMI 6/4D/319
Maximum capacity	<i>Max</i> kg *
Minimum capacity	<i>Min</i> kg *
Verification scale interval	<i>e</i> = kg *
Serial number of the instrument

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

2. Description of Variants

2.1 Variant 1

As single interval instruments of certain capacities as listed below:

- of 15 kg maximum capacity with a verification scale interval of 0.005 kg; and
- of 30 kg maximum capacity with a verification scale interval of 0.010 kg.

2.2 Variant 2

With the displays mounted on a column (Figure 4).

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

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:

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

FIGURE 6/4D/319 – 1



Adam Model AZplus Weighing Instrument

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FIGURE 6/4D/319 – 2



Sealing of Screwed Stud

FIGURE 6/4D/319 – 3



Sealing of Access Hole

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FIGURE 6/4D/319 – 4



Adam Model AZplus With Column-mounted Displays