



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change

Certificate of Approval No 6/4C/82A

Change No 2

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

The following changes are made to the approval documentation for the

A & D Model FS-KL30 Weighing Instrument

submitted by A & D Mercury Pty Ltd
 (now A & D Australasia Pty Ltd)
 32 Dew Street
 Thebarton SA 5031.

- A. In Certificate of Approval No 6/4C/82A dated 31 March 1999;
1. The Condition of Approval referring to the review of the approval should be amended to read:
- “This approval becomes subject to review on 1 January **2014**, and then every 5 years thereafter.”
- Note: The review date was previously amended by Notification of Change No 1 dated 28 July 2004.
2. The FILING ADVICE should be amended by adding the following:
- “Notification of Change No 1 dated 28 July 2004
Notification of Change No 2 dated 1 February 2010”
- B. In Certificate of Approval No 6/4C/82A and its Technical Schedule both dated 31 March 1999, the references to the name of the submitter should be amended to read:
- “A & D **Australasia** Pty Ltd”

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 'M. J. ...', written over a horizontal line.



National Standards Commission


Certificate of Approval

No 6/4C/82A

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

A & D Model FS-KL30 Weighing Instrument

 submitted by A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

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 Certificate is issued upon completion of a review of NSC approval No 6/4C/82.

CONDITIONS OF APPROVAL



This approval becomes subject to review on 1 January 2004, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/82A 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 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.

DESCRIPTIVE ADVICE

Pattern: approved 11 December 1998

- An A & D model FS-KL30 self-indicating weighing instrument of 30 kg maximum capacity.

Variants: approved 11 December 1998

1. Certain other models and capacities.

Technical Schedule No 6/4C/82A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/82A dated 31 March 1999
Technical Schedule No 6/4C/82A dated 31 March 1999 (incl. Test Procedure)
Figure 1 dated 31 March 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.

TECHNICAL SCHEDULE No 6/4C/82A

Pattern: A & D Model FS-KL30 Weighing Instrument.



Submittor: A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031

1. Description of Pattern

An A & D model FS-KL30 self-indicating weighing instrument (Figure 1) of 30 kg maximum capacity with a verification scale interval of 0.01 kg.

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 initial zero-setting device has 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 tare device of up to maximum capacity may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

Instruments 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.

1.5 Verification/Certification Provision

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

1.6 Management Functions

Instruments may be fitted with a number of management functions which are not approved for trade use, including 'Limit Weighing', 'Target Weighing' and 'Comparator'.

1.7 Sealing Provision

Provision is made for access to the calibration adjustments to be sealed by sealing the calibration screw lock on the rear of the indicator.

1.8 Markings and Notices

(a) Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	A & D Company Ltd
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 6/4C/82A

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

(b) In addition, instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' or similar wording.

2. Description of Variant 1

Other models and capacities as listed below:

- (i) Model FS-KL150 of 150 kg maximum capacity with a verification scale interval of 0.05 kg.
- (ii) Model FS-KL60 of 60 kg maximum capacity with a verification scale interval of 0.02 kg.

TEST PROCEDURE

Instruments should be tested 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:

- $\pm 0.5 e$ 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 $2\,000 < m \leq 10\,000$.

6/4C/82A
28 July 2004



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/4C/82A
Change No 1

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

The following change is made to the approval documentation for the

A & D Model FS-KL30 Weighing Instrument

submitted by A & D Mercury Pty Ltd
32 Dew Street
Thebarton SA 5031.

In Certificate of Approval No 6/4C/82A dated 31 March 1999, the Condition of Approval referring to the review of the approval should be amended to read:

“This approval becomes subject to review on 1 January 2009, and then every 5 years thereafter.”

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.', is located in the bottom right corner of the page.

FIGURE 6/4C/82A - 1



A & D Model FS-KL30 Weighing Instrument