



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 6/4C/81A

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

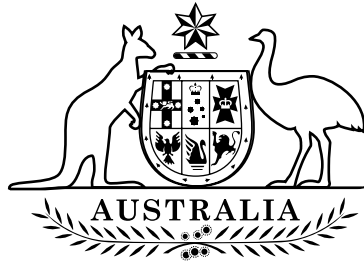
A & D Model FG-30K Weighing Instrument

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

has been cancelled in respect of new instruments as from 1 October 2010.

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 stylized cursive letters, positioned above a horizontal line.



National Standards Commission

Certificate of Approval

No 6/4C/81A

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 FG-30K 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/81.

CONDITIONS OF APPROVAL

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

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/81A 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 March 1999

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

Variant: approved 11 March 1999

1. Certain other models and capacities.

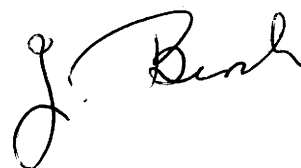
Technical Schedule No 6/4C/81A describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/81A dated 30 April 1999
Technical Schedule No 6/4C/81A dated 30 April 1999 (incl. Test
Procedure)
Figure 1 dated 30 April 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/81A

Pattern: A & D Model FG-30K Weighing Instrument.

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

1. Description of Pattern

An A & D model FG-30K self-indicating weighing instrument (Figure 1) of 30 kg maximum capacity with a verification scale interval of 0.01 kg. Instruments may also be known as a model FG-30.

Instruments are fitted with an A & D model FG load cell of 30 kg capacity.

1.1 Zero and Tare

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 9% of the maximum capacity of the instrument.

Zero setting and taring are accomplished by means of a common button marked ZERO, which sets zero to within $\pm 0.25e$.

A semi-automatic subtractive tare-balancing device of up to maximum capacity is 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 Sealing Provision

Provision is made for the calibration switch cover plate on the rear housing of the indicator to be sealed.

1.7 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/81A

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

May be located separately from the other markings.

(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 FG-60K (or FG-60) of 60 kg maximum capacity with a verification scale interval of 0.02 kg.

Instruments are fitted with an A & D model FG load cell of 60 kg capacity.

(ii) Model FG-150K (or FG-150) of 150 kg maximum capacity with a verification scale interval of 0.05 kg.

Instruments are fitted with an A & D model FG load cell of 150 kg capacity.

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 $2\,000 < m \leq 10\,000$.



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 6/4C/81A
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 FG-30K Weighing Instrument

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

In Certificate of Approval No 6/4C/81A dated 30 April 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 April 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/81A - 1



A & D Model FG-30K (or FG-30) Weighing Instrument