



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval NMI 6/4C/216

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 & D Model SK-1000WP Weighing Instrument

submitted by A & D Australasia Pty Ltd
 formerly 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 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 **1/03/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	18/02/03
1	Pattern & variant 1 approved – certificate issued	20/03/03
2	Pattern & variant 1 reviewed – notification of change issued	24/04/08
3	Pattern & variant 1 reviewed & updated (change submittor name) – certificate issued	21/06/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) 6/4C/216' and only by persons authorised by the submitter.

It is the submitter'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.

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 6/4C/216

1. Description of Pattern **approved on 18/02/03**

An A & D model SK-1000WP self-indicating single interval class III weighing instrument (Figure 1 and Table 1) with a maximum capacity of 1000 g and a verification scale interval of 0.5 g. May also be known as A & D Mercury or A & D Australasia instruments of the same model.

The instrument has an integral liquid crystal operator display (Figure 1). The size of the instrument platter is nominally 230 × 190 mm.

Instruments are powered by an A & D model TB:172, 8 V DC power supply or by battery.

Instruments are not approved for trading direct with the public and are so marked.

1.1 Zero and Tare

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

Instruments have a zero indicator which illuminates whenever zero is correct within $\pm 0.25e$.

A zero-tracking device automatically corrects zero to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

The instruments have a combined semi-automatic zero-setting and subtractive tare balancing device (operated by the 'T' key). Operation of this device zeroes the instrument if the load is within the zero-setting range (2% of the maximum capacity of the instrument), otherwise the instrument is tared ("NET" appears). The subtractive taring device operates up to the maximum capacity of the instrument.

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1.2 Display Check

A display check is initiated whenever power is applied.

1.3 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.

1.4 Verification Provision

Provision is made for the application of a verification mark.

1.5 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a destructible label over the access cover to the calibration switch which is underneath the instrument at the front right side.

1.7 Descriptive Markings and Notices

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	A & D Co. Ltd.
Name or mark of manufacturer's agent	A&D Australasia Pty Ltd
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI 6/4C/216
Maximum capacity	Max g or kg #1
Minimum capacity	Min g or kg #1
Verification scale interval	e = g or kg #1
Serial number of the instrument

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

In addition, instruments shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variant 1

approved on 18/02/03

Certain other models and in capacities as listed in Table 1.

TABLE 1

Model	Max (g)	Min (g)	e (g)
SK-1000WP	1000	10	0.5
SK-2000WP	2000	20	1
SK-5000WP	5000	40	2
SK-10KWP	10 000	100	5
SK-20KWP	20 000	200	10

TEST PROCEDURE

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 the *National Trade Measurement Regulations 2009*.

FIGURE 6/4C/216 – 1



A & D Model SK-1000WP Weighing Instrument

FIGURE 6/4C/216 – 2



Sealing

~ End of Document ~