



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Certificate of Approval No 6/4D/284**

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 Mercury Model SA-15K 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 December 2007.

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. H. T.', written in a cursive style.

## National Standards Commission



### Certificate of Approval

**No 6/4D/284**

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 Mercury Model SA-15K 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.

#### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 September 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/284 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 15 August 1997

- An A & D Mercury model SA-15K multi-interval weighing instrument of 15 kg maximum capacity.

Technical Schedule No 6/4D/284 describes the pattern.

**Variants:** approved 16 July 1999

1. With an alternative plug-in power supply unit.

Technical Schedule No 6/4D/284 Variation No 1 describes variant 1.

#### FILING ADVICE

Certificate of Approval No 6/4D/284 dated 20 November 1997 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/284 dated 6 August 1999  
Technical Schedule No 6/4D/284 dated 20 November 1997 (incl. Test Procedure)

Technical Schedule No 6/4D/284 Variation No 1 dated 6 August 1999  
Figure 1 dated 20 November 1997

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.

A handwritten signature in black ink, appearing to read 'J. Taylor', is written over a horizontal line.

## TECHNICAL SCHEDULE No 6/4D/284

**Pattern:** A & D Mercury Model SA-15K Multi-interval Weighing Instrument.

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

### 1. Description of Pattern

An A & D Mercury model SA-15K multi-interval price-computing weighing instrument (Figure 1) with a verification scale interval ( $e_1$ ) of 0.002 kg up to 6 kg, and a verification scale interval ( $e_2$ ) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments have unit price to \$999.99/kg and price to \$9999.99.

Instruments are either battery-powered or supplied from an A & D Mercury model TB108 7.5 V DC (nominal) plug-in power supply unit.

#### 1.1 Zero

Zero is automatically corrected to within  $\pm 0.25 e_1$  whenever power is applied and whenever the instrument comes to rest within  $0.5e_1$  of zero.

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

#### 1.2 Tare

A semi-automatic subtractive taring device of up to 15 kg maximum capacity may be fitted.

#### 1.3 Display Check

A display check is initiated whenever power is applied.

#### 1.4 Verification/Certification Provision

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

#### 1.5 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of destructible labels over the calibration access cover located under the load receptor and over the interface connector cover located on the left hand side of the main cover.

## 1.6 Levelling

Instruments are provided with adjustable feet and a level indicator.

## 1.7 Markings

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

Manufacturer's mark, or name written in full	
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 6/4D/284

- \* These markings shall also be repeated near each reading face if they are not already located there.

## 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
- $\pm 1.5 e$  or loads  $2\,000 < m \leq 10\,000$ .

For multi-interval instruments with verification scale intervals of  $e_1, e_2, \dots$ , apply  $e_1$  for zero adjustment, and for maximum permissible errors apply  $e_1, e_2, \dots$ , as applicable for the load.

TECHNICAL SCHEDULE No 6/4D/284  
VARIATION No 1

**Pattern:** A & D Mercury Model SA-15K Multi-interval Weighing Instrument.

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

**1. Description of Variant 1**

With an alternative plug-in power supply unit, namely an A & D Mercury model TB124 12 V DC (nominal) unit.



# National Standards Commission

## Notification of Change

### Certificate of Approval No 6/4D/284

### Change No 1

The following change is made to the approval documentation for the

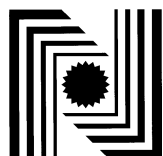
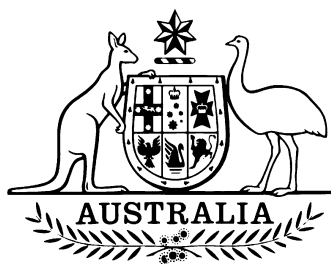
A & D Mercury Model SA-15K Weighing Instrument

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

In Technical Schedule No 6/4D/284 dated 20 November 1997, clause **1.5 Sealing Provision** should be amended to read:

“Provision is made for the calibration adjustments to be sealed by means of destructible labels over the calibration access cover located *on the right hand side of the main cover* and over the interface connector cover located on the left hand side of the main cover.”

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.



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Notification of Change

### Certificate of Approval No 6/4D/284

### Change No 2

The following change is made to the approval documentation for the

A & D Mercury Model SA-15K Weighing Instrument

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

In Certificate of Approval No 6/4D/284 dated 6 August 1989 the Condition of Approval referring to the review of the approval should be amended to read:

“This approval becomes subject to review on 1 September 2007, and then every 5 years thereafter.”

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.





FIGURE 6/4D/284 - 1



A & D Mercury Model SA-15K Weighing Instrument