

National Standards Commission



Supplementary Certificate of Approval

No S251

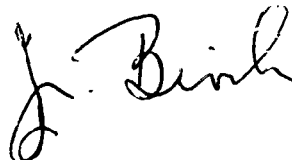
Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

AND Mercury Model AD-4323 Digital Indicator

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

Signed and sealed by a person authorised
under Regulation 9 of the National
Measurement (Patterns of Instruments)
Regulations to exercise the powers and
functions of the Commission under this
Regulation.



CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/5/94.

This approval expires in respect of new instruments on 1/5/95.

Instruments purporting to comply with this approval shall be marked NSC No S251 and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S251 in addition to the approval number of the instrument.

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 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 21/4/89

. An AND Mercury model AD-4323 digital mass indicator.

Technical Schedule No S251 describes the pattern.

Variants: approved 20/8/91

1. A model AD-4324 indicator with a check weighing facility.

2. A model AD-4325A (AD-4325V) indicator with a batch weighing facility.

Technical Schedule No S251 Variation No 1 describes variants 1 and 2.

FILING ADVICE

Supplementary Certificate of Approval No S251 dated 18/8/89 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S251 dated 13/1/92
Technical Schedule No S251 dated 18/8/89 (incl. Table 1 and Test
Procedure)
Technical Schedule No S251 Variation No 1 dated 13/1/92
Figure 1 dated 18/8/89
Figures 2 and 3 dated 13/1/92



NATIONAL STANDARDS COMMISSION

S251
18/8/89

TECHNICAL SCHEDULE No S251

Pattern: AND Mercury Model AD-4323 Digital Indicator.

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

1. Description of Pattern

An AND Mercury model AD-4323 digital mass indicator approved for use with up to 8500 verification scale intervals (Figure 1) which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

1.1 Zero

Zero is automatically set to within $\pm 0.25e$ whenever the instrument comes to rest within $\pm 0.5e$. If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Tare

The instrument may be fitted with a semi-automatic subtractive taring device of up to maximum capacity.

1.4 Verification Provision

Provision is made for a verification mark to be applied.

1.5 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
Accuracy class	
Maximum capacity	Ⓜ
Minimum capacity	Max
Verification scale interval	Min
Maximum subtractive tare	e = d =
NSC approval numbers - indicator	T = -
- other components	NSC No S251
 #

* Repeated in the vicinity of each reading face.

May be located separately from the other markings.

TABLE 1

Type: AND Mercury	AD - 4323
Maximum number of verification scale intervals	8500
Minimum sensitivity	0.6×10^{-3} mV/scale Interval
Excitation voltage	12 V
Minimum load impedance	43 ohms
Maximum excitation current	280 mA

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the weighing instrument to which this indicator is connected, and in accordance with any relevant tests specified in the Inspector's Handbook.

The results shall not exceed the maximum permissible errors specified in Document 118, 2nd Edition, October 1986.



National Standards Commission

TECHNICAL SCHEDULE No S251

VARIATION No 1

Pattern: AND Mercury Model AD-4323 Digital Indicator.

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

1. Description of Variants

1.1 Variant 1

A model AD-4324 digital mass indicator (Figure 2) which is as per the pattern and in addition, with a check weighing facility and a counting feature.

1.2 Variant 2

A model AD-4325A digital mass indicator (Figure 3) which is as per the pattern and in addition, with a batch weighing facility which includes set points.

The instrument may be in an alternative ('vertical') housing, in which case it is known as a model AD-4325V (Figure 3).

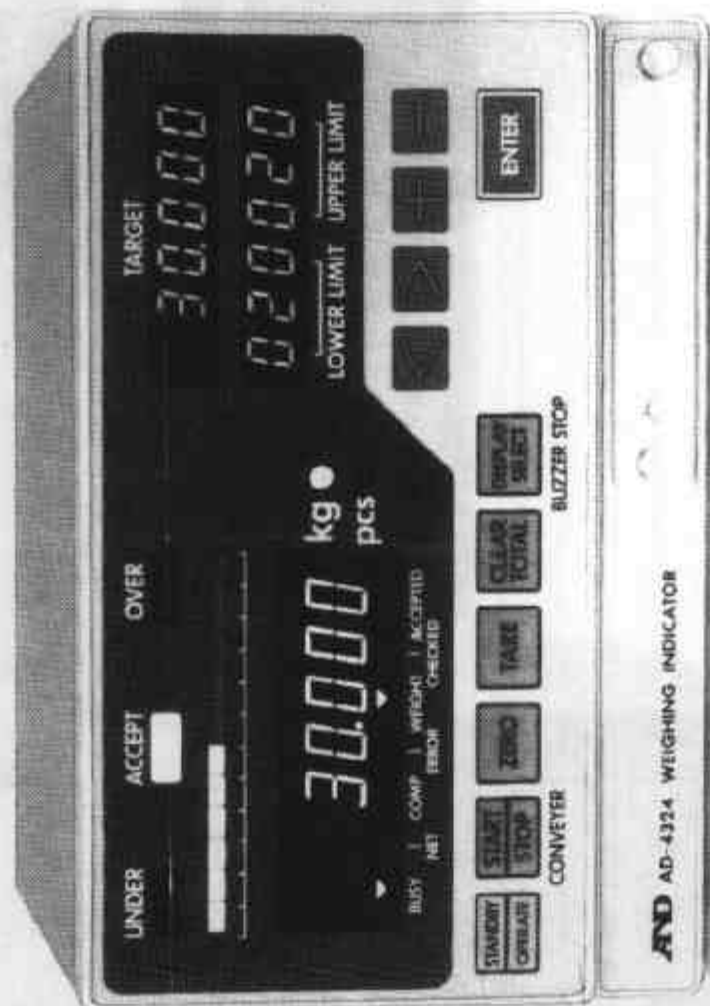
Figure S251 - 1



AND Mercury AD-4323 Indicator

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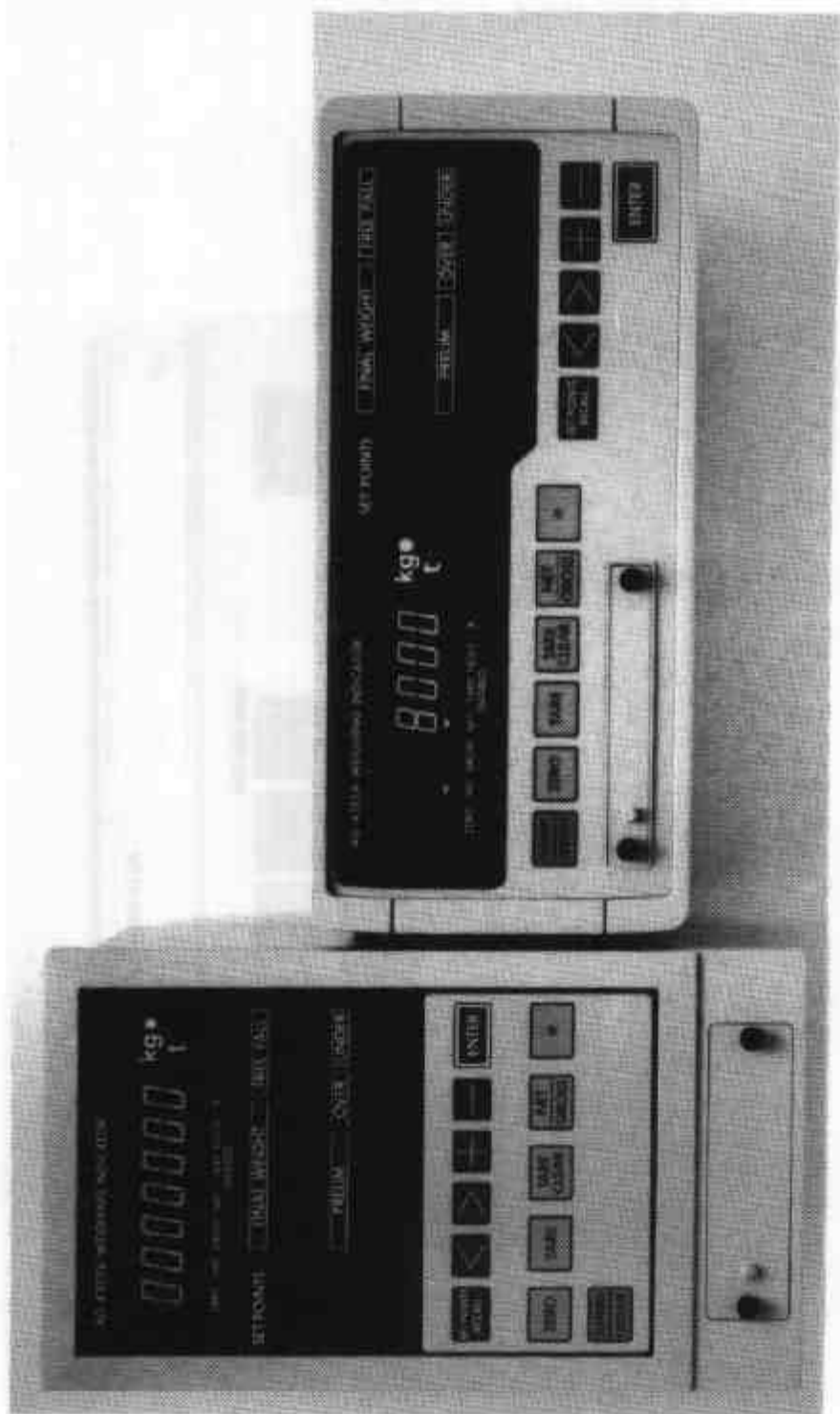
FIGURE S251 - 2



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AND Mercury Model AD-4324 Indicator

FIGURE S251 - 3



Models AD-4325V and AD4325A Indicators