National Standards Commission



Supplementary Certificate of Approval

No S314

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 AD-4326B Digital Indicator

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 is subject to review on or after 1 March 2000. This approval expires in respect of new instruments on 1 March 2001.

Instruments purporting to comply with this approval shall be marked NSC No S314 and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S314 in addition to the approval number of the instrument.

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

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 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 3 February 1995

. An A & D Mercury model AD-4326B digital mass indicator.

Variant: approved 3 February 1995

1. Certain other models and configurations.

Technical Schedule No S314 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S314 dated 3 April 1995 Technical Schedule No S314 dated 3 April 1995 (incl. Table 1 and Test Procedure) Figures 1 and 2 dated 3 April 1995

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.

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National Standards Commission

TECHNICAL SCHEDULE No S314

Pattern: A & D Mercury Model AD-4326B Digital Indicator.

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

1. Description of Pattern

An A & D Mercury model AD-4326B digital mass indicator (Figure 1 and Table 1) which may be fitted with input/output sockets for the connection of auxiliary and/or peripheral devices.

Instruments may be battery-operated or may use an AC adaptor.

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.

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

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Tare

A keyboard-entered subtractive preset taring device of up to maximum capacity is fitted.

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

1.4 Management Functions

Instruments may be fitted with a number of management functions which are not approved for trade use, including comparator and counting.

1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

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1.6 Sealing Provision

Provision is made for the calibration adjustments of the instrument to be sealed.

1.7 Markings

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

Manufacturer's name or m	ark			
Serial number			-	
Accuracy class			(II)	
Maximum capacity			Max	*
Verification scale interval			e =	*
Minimum capacity			Min	*
NSC approval numbers	-	indicator	NSC No S314	
	-	other components	NSC No	#

- * Repeated in the vicinity of each reading face.
- # May be located separately from the other markings.

2. Description of Variant 1

Other models and configurations as listed below:

Maximum number of varification 5000

Model AD-4326A - having features of the pattern (model AD-4326B), but without the preset taring device.

Model AD-4327B - having features of the pattern (model AD-4326B), and in a waterproof housing (Figure 2).

Model AD-4327Bs - having features of the model AD-4327B including the housing, but without some of the management functions (e.g. counting) and therefore having a different keyboard layout.

Model AD-4327A - having features of the model AD-4327B including the housing, but without the preset taring device.

TABLE 1

Type: Models AD-4326A, AD-4326B, AD-4327A, AD-4327B & AD-4327Bs

maximum number of vehication	5000
scale intervals	
Minimum sensitivity	0.8 x 10 ⁻³ mV/scale interval
Excitation voltage	±5 V DC
Minimum load impedance	350 Ω
Maximum excitation current	90 mA

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TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

 $\pm 0.5e$ for loads from 0 to 500e; $\pm 1.0e$ for loads over 500e up to 2000e; and $\pm 1.5e$ for loads over 2000e.

S314 17 June 1996

National Standards Commission



NOTIFICATION OF CHANGE

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S314

CHANGE No 1

The following change is made to the approval documentation for the

A & D Mercury Model AD-4326B Digital Indicator

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

In Technical Schedule No S314 dated 3 April 1995, Table 1 should be amended to read, in part:

Minimum load impedance 55.6 Ω

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.

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FIGURE S314 - 1



A & D Mercury Model AD-4326B Digital Indicator

FIGURE S314 - 2

