



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Cancellation

Supplementary Certificate of Approval

No S343

Issued 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 AD-4328 Digital Indicator

submitted by A & D Mercury Pty Ltd

32 Dew Street

Thebarton SA 5031

has been cancelled in respect of new instruments as from 1 August 2002.

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.

Jon Semett

National Standards Commission



Supplementary Certificate of Approval

No S343

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-4328 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 becomes subject to review on 1 April 2002, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S343 and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S343 in addition to the approval number of the instrument.

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.

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

DESCRIPTIVE ADVICE

Pattern: approved 14 March 1997

• An A & D Mercury model AD-4328 digital indicator.

Technical Schedule No S343 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S343 dated 6 June 1997 Technical Schedule No S343 dated 6 June 1997 (incl. Table 1 and Test Procedure)

Figure 1 dated 6 June 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.

National Standards Commission

TECHNICAL SCHEDULE No S343

Pattern: A & D Mercury Model AD-4328 Digital Indicator.

Submittor: A & D Mercury Pty Ltd

32 Dew Street

Thebarton SA 5031.

1. Description of Pattern

An A & D Mercury model AD-4328 digital indicator (Figure 1 and Table 1) which is approved for use with up to 6000 verification scale intervals and which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

1.1 Zero

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 instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic pre-set subtractive taring device of up to the maximum capacity of the instrument 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

The cover over the calibration adjustment switch on the front of the indicator is to be sealed.

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1.6 Markings

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

Manufacturer's mark, or name written in full

Indication of accuracy class

Serial number of the instrument

Pattern approval mark for the indicator NSC No S343

In addition, instruments not greater than 100kg capacity shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

TABLE 1 — Specifications

Maximum number of verification

scale intervals 6000

Minimum sensitivity 0.8 µV/scale interval

Excitation voltage 5 V DC
Minimum load impedance 58.3 ½
Maximum excitation current 86 mA

TEST PROCEDURE

Instruments should 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.

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:

 ± 0.5 e for loads $0 \le m \le 500$;

 ± 1.0 e for loads $500 < m \le 2000$; and

 ± 1.5 e or loads $2000 < m \le 10000$.

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

FIGURE S343 - 1

