



NATIONAL STANDARDS COMMISSION

S161A
4/10/89

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S161A

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

AND Mercury Model AD-4316 Digital Indicator

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

This Certificate is issued upon completion of a review of NSC approval No S161.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/9/94.
This approval expires in respect of new instruments 1/9/95.

Instruments purporting to comply with this approval shall be marked NSC No S161A.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.

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 components approved herein, shall be within the limits specified in this approval and in any approval documentation for the other components, excepting any limitations imposed by mechanical indicators on mechanical baseworks in such approval documentation.

Signed

Executive Director

Descriptive Advice

Pattern: approved 7/8/89

- An AND Mercury model AD-4316 digital mass indicator.

Technical Schedule No S161A describes the pattern.

Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S161A dated 4/10/89
Technical Schedule No S161A dated 4/10/89 (incl. Table 1 & Test
Procedure)
Figure 1 dated 4/10/89



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TECHNICAL SCHEDULE No S161A

Pattern: AND Mercury Model AD-4316 Digital Indicator.

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

1. Description of Pattern

An AND Mercury model AD-4316 digital mass indicator approved for use with up to 5000 verification scale intervals. It may be fitted with output sockets for the connection of auxiliary and/or peripheral devices. The Indicator may be as shown in Figure 1 or in alternative housings.

1.1 Zero

An automatic device may be fitted to set zero 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, or if the automatic device is not fitted, zero may be set by pressing the zero button.

1.2 Display Check

A display check is initiated by operating the ON/OFF button twice.

1.3 Tare

The instrument may be fitted with a semi-automatic subtractive taring device of up to maximum capacity and/or a non-automatic thumbwheel-operated taring device of either 600 or 1000 kg capacity with a scale interval of 0.2 or 0.5 kg, respectively.

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

Verification scale interval

Maximum subtractive tare

NSC approval numbers - indicator

- other components

III

Max *

Min *

$e=d=$ *

$T = -$ *

NSC No S161A

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* Repeated in the vicinity of each reading face.

May be located separately from the other markings.

TABLE 1

Type:	AND Mercury	AD - 4316
Maximum number of verification scale intervals		5000
Minimum sensitivity		0.6×10^{-3} mV/scale interval
Excitation voltage		12 V
Minimum load impedance		43 ohms
Maximum excitation current		280 mA

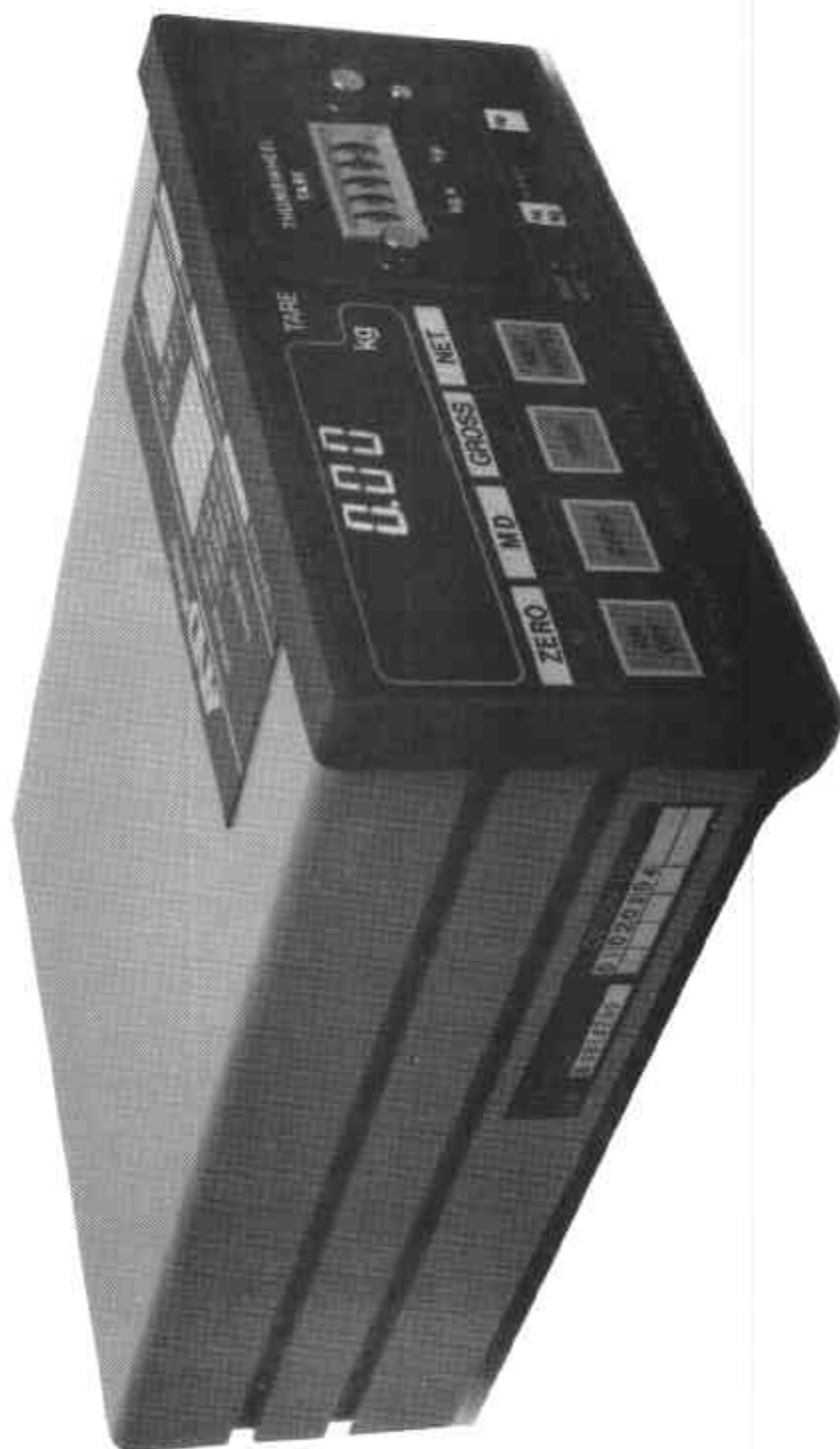
TEST PROCEDURE

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

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Figure S161A - 1



AND Mercury Model 4316