

National Standards Commission



Certificate of Approval

No 6/9C/5A

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

AND Mercury Model 211DA 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.

This Certificate is issued upon completion of a review of NSC approvals Nos 6/5/11, 6/9C/5 and 6/9C/13.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 May 1999.
This approval expires in respect of new instruments on 1 May 2000.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/5A and only by persons authorised by the submittor.

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

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.

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

DESCRIPTIVE ADVICE

Pattern: approved 4 April 1994

- An AND Mercury model 211DA self-indicating weighing instrument of 100 kg maximum capacity.

Variants: approved 4 April 1994

1. In certain other capacities.
2. With the indicator suspended in which case the basework is replaced by a hook or scoop. The instrument has a maximum capacity of 10 kg.

Variant: approved 7 October 1994

3. Model 522DFA in certain capacities.

Technical Schedule No 6/9C/5A describes the pattern and variants 1 to 3.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/5A dated 27 October 1994
Technical Schedule No 6/9C/5A dated 27 October 1994 (incl. Test Procedure)
Figures 1 to 3 dated 27 October 1994

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 6/9C/5A

Pattern: AND Mercury Model 211DA Weighing Instrument.

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

1. Description of Pattern

An AND Mercury model 211DA self-indicating weighing instrument (Figure 1) of 100 kg maximum capacity with a verification scale interval of 0.2 kg.

Instruments may also be known as GEC Avery model 211 CUB.

1.1 Basework

The model 211DA basework lever system (Figure 2) consists of two main levers supported from swinging links at the four corners of a cast framework. The levers are linked by a circular bearing and an extension of the front lever is coupled to the pullrod which passes up to the headwork support column.

The basework is fitted with adjustable legs and a level indicator.

1.2 Indicator

The model 211DA headwork consists of a spring-resistant mechanism with two air dashpots and a single or double-sided dial indicator.

Zero balance is achieved by means of an adjustment on the top of the indicator housing.

1.3 Markings

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

Manufacturer's name or mark
Serial number
NSC approval number
Accuracy class
Maximum capacity
Minimum capacity
Verification scale interval

NSC No 6/9C/5A

III

Max kg *
Min kg *
e = kg *

* These are repeated adjacent to each reading face.

2. Description of Variants

2.1 Variant 1

In other capacities as listed below:

- Of 25 kg maximum capacity with a verification scale interval of 0.05 kg.
- Of 50 kg maximum capacity with a verification scale interval of 0.1 kg.

2.2 Variant 2

With the indicator suspended in which case the basework is replaced by a hook or scoop. The instrument (Figure 3) has a maximum capacity of 10 kg and a verification scale interval of 0.02 kg.

2.3 Variant 3

The model 522DFA in capacities as listed below:

- Of 250 kg maximum capacity with a verification scale interval of 0.5 kg.
- Of 100 kg maximum capacity with a verification scale interval of 0.2 kg.

Instruments may also be known as GEC Avery model 522 CUB.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, 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, 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.

National Standards Commission



NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/5A

CHANGE No 1

The following changes are made to the approval documentation for the

A & D Mercury Model 211DA Weighing Instrument

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

In Technical Schedule No 6/9C/5A dated 27 October 1994:

1. Clause 1.3 **Markings** should be amended by adding the following note;

In addition, instruments of 100 kg capacity or less (except suspended instruments) shall carry a notice stating **NOT FOR RETAIL COUNTER USE, or NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar.**

2. The following clause should be added;

1.4 Sealing and Verification/Certification Provision

Provision is made for the calibration adjustments to be sealed.

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

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



NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/5A

CHANGE No 2

The following changes are made to the approval documentation for the

A & D Mercury Model 211DA Weighing Instrument

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

In Technical Schedule No 6/9C/5A dated 27 October 1994:

1. Clause 1. Description of Pattern should be amended by changing the second paragraph to read:

"Instruments may also be known as GEC Avery model 211 CUB
or 3551 CUB."

2. Clause 2.3 Variant 3 should be amended by changing the second paragraph to read:

"Instruments may also be known as GEC Avery model 522 CUB
or 3552 CUB."

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.

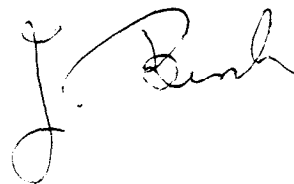
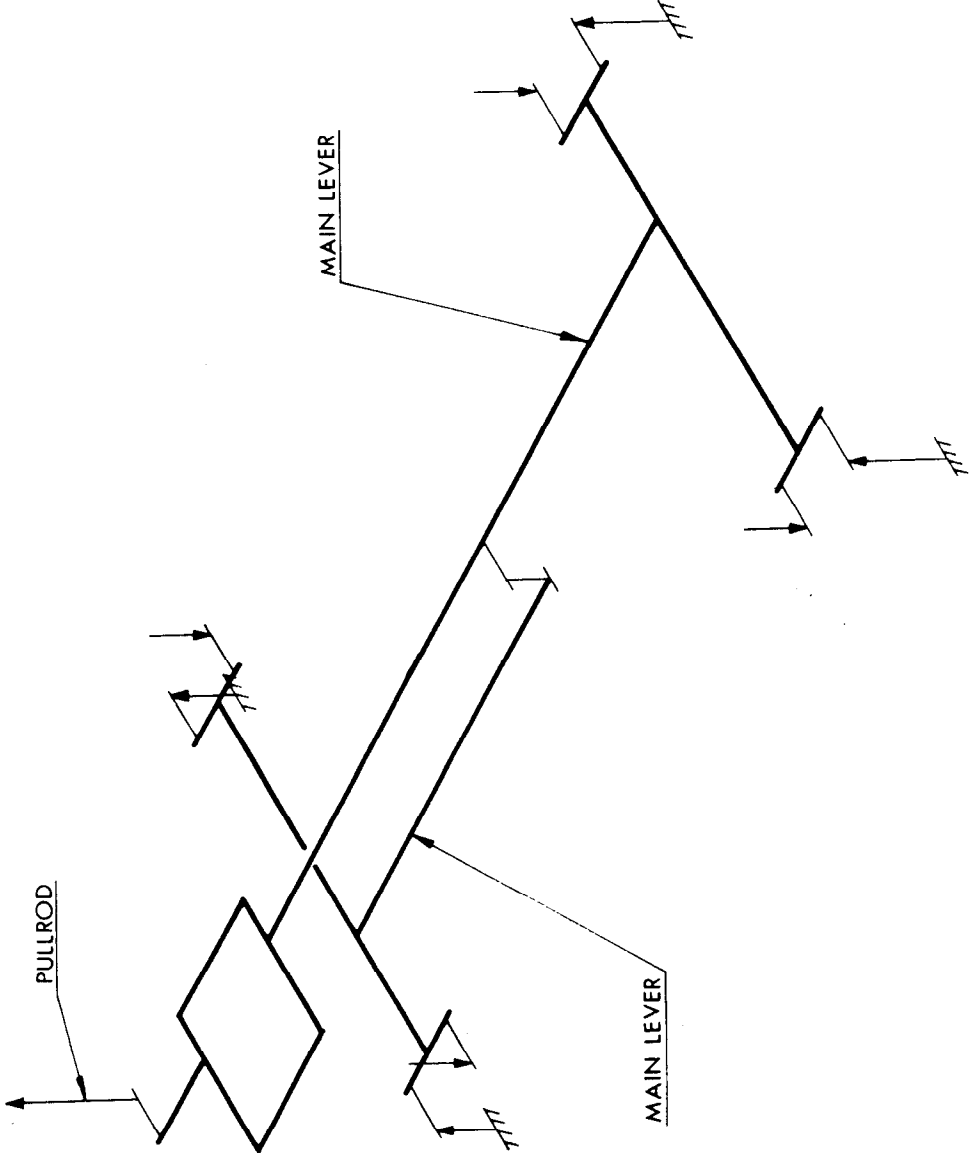


FIGURE 6/9C/5A - 1



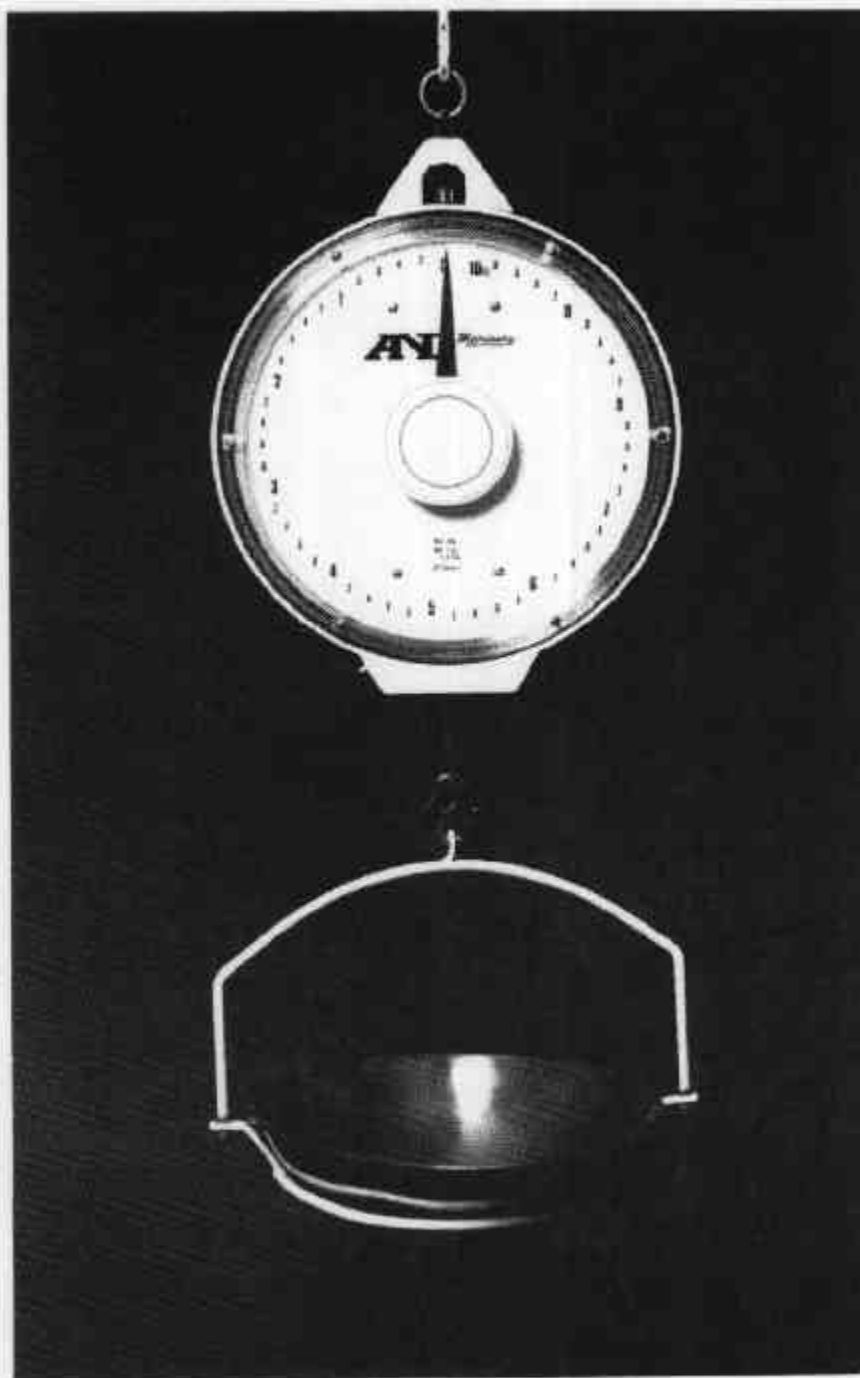
AND Mercury Model 211DA Weighing Instrument

FIGURE 6/9C/5A - 2



Typical 211DA Lever System

FIGURE 6/9C/5A - 3



Model 211DA as a Suspended Instrument