

National Standards Commission



Certificate of Approval

No 6/4C/81

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 Model FG-30K Weighing Instrument

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

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/98.
This approval expires in respect of new instruments on 1/10/99.

Instruments purporting to comply with this approval shall be marked
NSC No 6/4C/81 and only by persons authorised by the submittor.

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

DESCRIPTIVE ADVICE

Pattern: approved 3/9/93

- An AND model FG-30K self-indicating weighing instrument of 30 kg maximum capacity. May also be known as a model FG-30.

Variants: approved 24/3/94

1. Model FG-60K (or FG-60) of 60 kg maximum capacity.
2. Model FG-150K (or FG-150) of 150 kg maximum capacity.

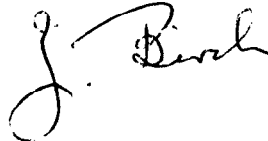
Technical Schedule No 6/4C/81 describes the pattern and variants 1 and 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/81 dated 3/5/94
Technical Schedule No 6/4C/81 dated 3/5/94 (incl. Test Procedure)
Figure 1 dated 3/5/94

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 6/4C/81

Pattern: AND Model FG-30K Weighing Instrument.

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

1. Description of Pattern

An AND model FG-30K self-indicating weighing instrument (Figure 1) of 30 kg maximum capacity with a verification scale interval of 0.01 kg. Instruments may also be known as model FG-30.

The instrument is fitted with an AND model FG load cell of 30 kg capacity.

1.1 Zero and Tare

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 an initial zero-setting device with a nominal range of up to 9% of the maximum capacity of the instrument.

Zero setting and taring are accomplished by means of a common button marked ZERO, which sets zero to within $\pm 0.25e$.

A tare balancing device of up to maximum capacity is fitted; the device being in use is indicated by the NET light illuminating.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

The instrument is provided with adjustable feet and a level indicator.

1.5 Verification/Certification Provision

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

1.6 Sealing Provision

Provision is made for a lead-and-wire (or similar) seal to be applied to the calibration switch cover plate on the rear of the indicator housing.

1.7 Markings

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

Manufacturer's name or mark	
Serial number	#
NSC approval number	NSC No 6/4C/81
Accuracy class	III
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *

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

Instruments are also marked NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variants

2.1 Variant 1

Model FG-60K (or FG-60) of 60 kg maximum capacity with a verification scale interval of 0.02 kg.

The instrument is fitted with an AND model FG load cell of 60 kg capacity.

2.2 Variant 2

Model FG-150K (or FG-150) of 150 kg maximum capacity with a verification scale interval of 0.05 kg.

The instrument is fitted with an AND model FG load cell of 150 kg capacity.

TEST PROCEDURE

Instruments should be tested in conjunction 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 6/4C/81

Change No 1

The following change is made to the approval documentation for the

AND Model FG-30K Weighing Instrument

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

In Certificate of Approval No 6/4C/81 dated 3 May 1994, the Condition of Approval referring to the expiry of the approval should be amended to read:

“This approval expires in respect of new instruments on 1 October 2000.”

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 6/4C/81 - 1



AND Model FG-30K (or FG-30) Weighing Instrument