

National Standards Commission



Certificate of Approval

No 6/4C/82

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 FS-KL30 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 October 1998.
This approval expires in respect of new instruments on 1 October 1999.

Instruments purporting to comply with this approval shall be marked
NSC No 6/4C/82 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 September 1993

- An AND model FS-KL30 self-indicating weighing instrument of 30 kg maximum capacity.

Variants: approved 1 August 1994

1. Model FS-KL150 of 150 kg maximum capacity.

Variants: approved 9 September 1994

2. Model FS-KL60 of 60 kg maximum capacity.

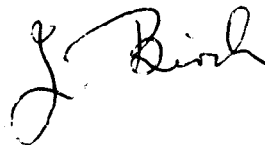
Technical Schedule No 6/4C/82 describes the pattern and variants 1 and 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/82 dated 1 October 1994
Technical Schedule No 6/4C/82 dated 1 October 1994 (incl. Test
Procedure)
Figure 1 dated 1 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 6/4C/82

Pattern: AND Model FS-KL30 Weighing Instrument.

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

1. Description of Pattern

An AND model FS-KL30 self-indicating weighing instrument (Figure 1) of 30 kg maximum capacity with a verification scale interval of 0.01 kg.

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 an initial zero-setting device with a nominal range of not more than 20% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic tare weighing device of up to maximum capacity may be fitted.

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 Management Functions

Instruments may be fitted with a number of management functions which are not approved for trade use, including 'Limit Weighing', 'Target Weighing' and 'Comparator'.

1.6 Verification/Certification Provision

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

1.7 Sealing Provision

Provision is made for sealing access to the calibration switch.

1.8 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/82
Accuracy class	(III)
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Maximum subtractive tare	T = - kg #

* Repeated in the vicinity of each reading face.

If different to the maximum capacity of the instrument.

In addition, instruments are marked NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variants

2.1 Variant 1

Model FS-KL150 of 150 kg maximum capacity with a verification scale interval of 0.05 kg.

2.1 Variant 2

Model FS-KL60 of 60 kg maximum capacity with a verification scale interval of 0.02 kg.

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/82

CHANGE No 1

The following change is made to the approval documentation for the

AND Model FS-KL30 Weighing Instrument

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

In Technical Schedule No 6/4C/82 dated 1 October 1994 Clause 1. Description of **Pattern** should be amended by adding the following note:

NOTE: Seven (7) instruments only are of 31 kg maximum capacity, identified by serial numbers in the form 'M170395**' where ** represents 01, 02, 03, 06, 11, 14 or 50.

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.

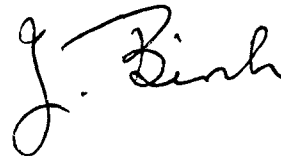


FIGURE 6/4C/82 - 1



AND Model FS-KL30 Weighing Instrument