NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4C/61

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

Mettler Model SM15 Weighing Instrument

submitted by FSE Pty Limited
Unit 3, 149 Arthur Street
Homebush NSW 2140.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/5/94.
This approval expires in respect of new instruments on 1/5/95.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/61.

This approval may be withdrawn if instruments are constructed other than in accordance with the drawings and specifications lodged with the Commission.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

Signed

Executive Director

Descriptive Advice

Pattern: approved 1/5/89

- A Mettler model SM15 class II self-indicating weighing instrument of 15 000 g maximum capacity.

Variant: approved 11/7/89

1. Other models and capacities as listed in Table 1.

Technical Schedule No 6/4C/61 describes the pattern and variant 1.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4C/61 dated 25/8/89
Technical Schedule No 6/4C/61 dated 25/8/89 (incl. Test Procedure and Table 1)
Figure 1 dated 25/8/89

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/61

Pattern: Mettler Model SM15 Weighing Instrument.

Submittor: FSE Pty Limited
Unit 3, 149 Arthur Street
Homebush NSW 2140.

1. Description of Pattern

A Mettler model SM15 class II self-indicating weighing instrument (Figure 1 and Table 1) of 15 000 g maximum capacity with a verification scale interval (e) of 1 g. The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices. The instrument is approved for use over a temperature range of 10°C to 30°C, and must be so marked. The indicator may be marked "SM-L" or "SM-S".

1.1 Zero and Tare

Zero setting and taring are accomplished by means of a common button that sets zero to within $\pm$ 0.25e, as indicated by the right-hand digit (d) which is differentiated and which operates only for the first 9e of the weighing range. Tare capacity is up to the maximum capacity of the instrument.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Optional Mass Unit or Display

A facility to configure the instrument with another mass unit or display, as follows:

a) kg or CM.

b) lb, oz, ozt, tl, GN, dwt, ct, or k - if the other mass unit is any of these, the instrument must be marked "lb ... k (as applicable) not for trade use" or "lb ... k (as applicable) for export use only". The scale interval, verification scale interval, maximum capacity and minimum capacity when used with these units (and g, kg and CM) shall be marked in the vicinity of the reading face. The markings of the primary units shall be given in grams.

c) PC: Piece counting - the mass of 10 pieces is set by placing them on the platter and holding the zero/tare button down.

d) %: Percentage - the mass corresponding to 100% is set by placing the mass on the platter and holding the zero/tare button down.

Note: The approval of functions b, c or d relates to the metrological performance only; inspectors are advised that the use of these functions must comply with the requirements of other statutory authorities.

1.4 Levelling

The instrument is provided with four feet, three of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

1.6 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/61
Accuracy class	(II)
Maximum capacity	Max ..... g *
Minimum capacity	Min ..... g *
Verification scale interval	e = ... g *
Scale interval	d = ... g *
Maximum subtractive tare	T = -..... g
Special temperature limits	10°C - 30°C

* Repeated in the vicinity of each reading face.

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

Note: Where the differentiated scale interval (d) is displayed for less than 50e, the value of Minimum Capacity marked should be 50e rather than 50d as specified in the Commission's Pattern Approval Specifications.

2. Description of Variant 1

Other models and capacities as listed in Table 1.

TABLE 1

Model		SM12	SM15	SM15000	SM1520
Maximum capacity	(g)	12 000	15 000	15 000	15 000
Verification scale interval, e	(g)	1	1	1	1
Scale interval, d	(g)	0.1	0.1	0.1	0.1
for first ... g		N/A (*)	9	N/A (*)	2 000

(*) The scale interval is displayed for the full range on these models.

TEST PROCEDURE

Instruments should be tested 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.

National Standards Commission

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4C/61

CHANGE No 1

The following changes are made to the approval documentation for the

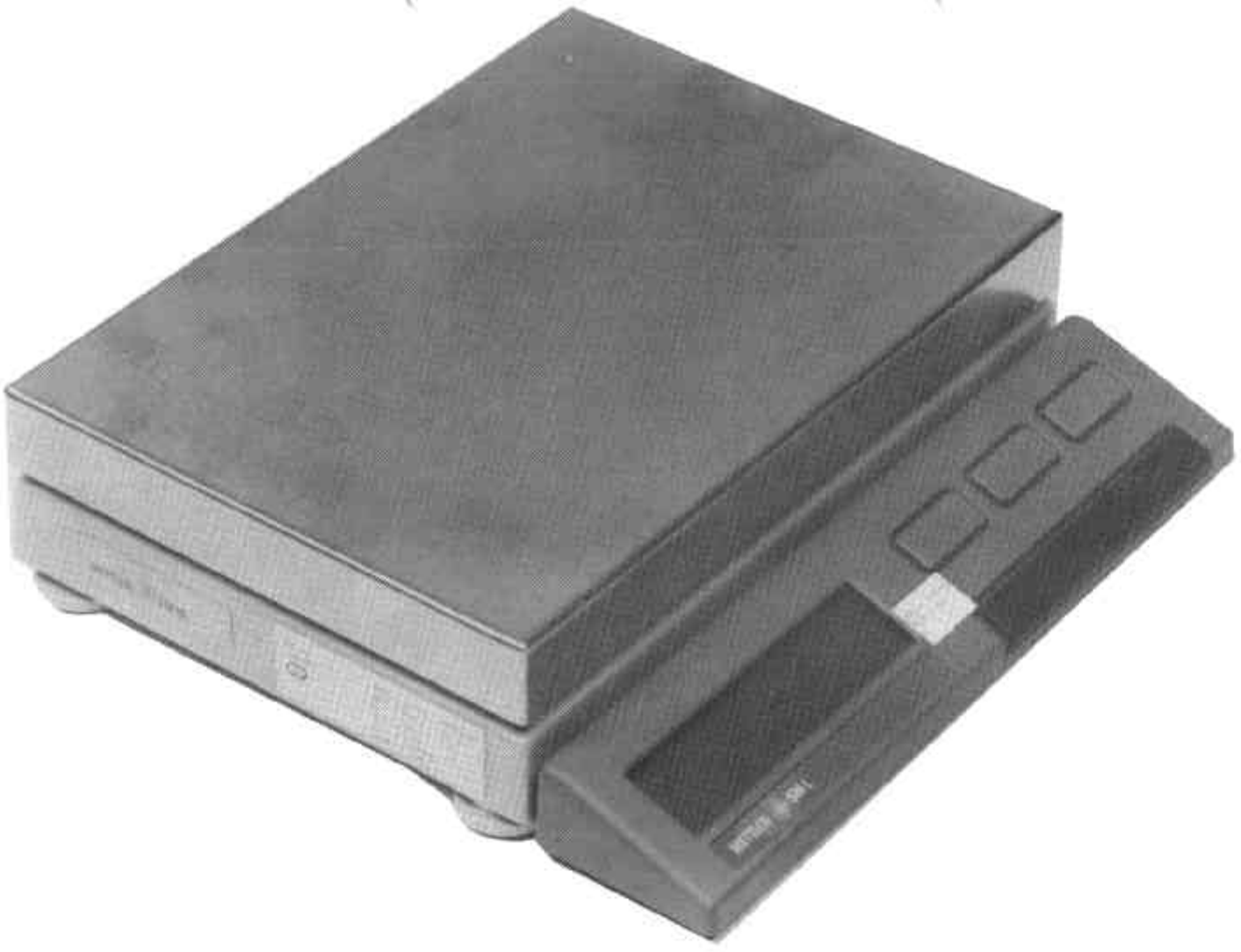
Mettler Model SM15 Weighing Instrument

submitted by FSE
Unit 3, 149 Arthur Street
Homebush NSW 2140.

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.

In Technical Schedule No 6/4C/61 dated 25/8/89, clause 1.1 Zero and Tare should be amended by changing the reference to zero setting to now read, in part, "... sets zero to within ±0.5d ...", (rather than "±0.25e").

Figure 6/4C/61 - 1



Mettler Model SM15