



CANCELLED

NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4C/38

This is to certify that an approval has been granted by the Commission that the pattern of the

Mettler Model PK 16 Weighing Instrument

submitted by FSE Scientific
40 Hilly Street
MORTLAKE POINT, NSW, 2137

is suitable for use for trade.

The approval is subject to review on or after 1/11/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/38. The approval may be withdrawn if instruments are used other than as described in the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 21/9/83

- Mettler model PK 16 Class II self-indicating weighing instrument of 16000 g capacity by 1.0 g verification scale intervals.

Technical Schedule No 6/4C/38 dated 7/10/83 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4C/38 dated 7/10/83
Technical Schedule No 6/4C/38 dated 7/10/83
Test Procedure No 6/4C/38 dated 7/10/83.
Figure 1 dated 7/10/83.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/38

Pattern: Mettler Model PK 16 Weighing Instrument

Submittor: FSE Scientific
40 Hilly Street
MORTLAKE POINT NSW 2137

1. Description of Pattern

The pattern is a class II electronic weighing instrument of 16000 g capacity by 1.0 g verification scale intervals (e) and 0.1 g scale intervals (d). A coloured filter differentiates the right-hand digit (d).

1.1 Zero and Tare

Zero setting and taring are accomplished by means of a switch bar on the front of the instrument which sets zero to within 0.25e. Zero is then indicated by + or - signs to within 0.25e. The removal of a tared load from the weighing instrument will result in the value of the tare rounded to the nearest 0.1e being displayed preceded by a minus sign. Tare capacity is up to the maximum capacity of the instrument.

1.2 Levelling

The instrument is provided with a level indicator and is supported on three feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument is incorrect if not truly level.

1.3 Display Check

On applying power the instrument displays all 8's, before indicating zero balance.

1.4 Markings

The nameplate is marked with the following data, in a clearly visible location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/38
Accuracy class	II
Maximum capacity	Max 16000 g*
Minimum capacity	Min 50 g*
Verification scale interval	e = 1.0 g*
Scale interval	d = 0.1 g*
Maximum subtractive tare	T = -16000 g

1.5 Verification Provision

There is provision for the application of a verification mark.

*These markings are repeated close to the reading face if the nameplate is not in that vicinity.

TEST PROCEDURE No 6/4C/38

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

The maximum permissible errors are:

$\pm 0.5e$ for loads between 0 and 5000e; and
 $\pm 1.0e$ for loads between 5001e and 20 000e.

1. Zero Test

Check by means of Document 104 that when Zero is indicated, zero is set within $\pm 0.25e$.

2. Level Sensitivity

When the instrument is tilted so that the bubble in the level indicator moves 2 mm, and zero balance is reset in the tilted position, the instrument should satisfy the accuracy requirements above.

3. Range of Indication

The mass indication should blank not more than 10 verification scale intervals above the marked maximum capacity, Max.

4. Tare

Place a mass equivalent to maximum capacity plus 11e on the load receptor and attempt to tare; this should not be possible.

Place masses equal to 80% of maximum capacity on the load receptor and operate the tare bar. Then place masses up to 20% of the maximum capacity on the load receptor. The indication of these masses should be within the above accuracy requirements.

5. Load Test

Test loads are to be applied to the instrument in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads of not less than 5 approximately equal steps.

FIGURE 6/4C/38 - 1



Mettler Model PK16

7/10/83