

6/4C/41
21/9/84

CANCELLED



NATIONAL STANDARDS COMMISSION

WEIGHTS AND MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4C/41

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

Mettler Model PK 4800 Weighing Instrument

submitted by FSE Scientific
40 Hilly Street
Mortlake Point, New South Wales, 2137

is suitable for use for trade.

This approval is subject to review on or after 1/9/89.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/41.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 28/10/83

Mettler model PK 4800 class II self-indicating weighing instrument of 4000 g capacity with a verification scale interval of 0.1 g.

Technical Schedule No 6/4C/41 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/4C/41 dated 21/9/84
Technical Schedule No 6/4C/41 dated 21/9/84
Test Procedure No 6/4C/41 dated 21/9/84
Figure 1 dated 21/9/84.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/41

Pattern: Mettler Model PK 4800 Weighing Instrument

Submittor: FSE Scientific
40 Hilly Street
Mortlake Point, New South Wales, 2137.

1. Description of Pattern

The pattern (Figure 1) is a class II weighing instrument of 4000 g capacity with a verification scale interval (e) of 0.1 g. Up to 800 g the scale interval (d) is 0.01 g, beyond which $e = d = 0.1$ g.

The change in scale interval (d) is automatic when loads in excess of 800 g are applied and remains at the larger value until the instrument returns to zero, and the zero/tare bar is pressed.

The right-hand digit ($d = 0.01$ g) is differentiated by hatching.

When power is applied a segment check is initiated before zero is indicated.

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 $\pm 0.25e$ as indicated by + or - signs. The removal of a tared load from the weighing instrument will result in the value of the tare rounded to the nearest $0.25e$ being displayed preceded by a minus sign. Tare capacity is up to the maximum capacity of the instrument.

1.2 Levelling

The instrument 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 Marking

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/41
Accuracy class	II
Maximum capacity	Max 4000 g*
Minimum capacity	Min 5 g*
Verification scale interval	$e = d = 0.1$ g*
Maximum subtractive tare	$T = -4000$ g
Up to 800 g: Verification scale interval	$e = 0.1$ g*
Scale interval	$d = 0.01$ g*†

This instrument is also marked NOT FOR RETAIL COUNTER USE.

1.4 Verification Provision

Provision is made for a verification mark to be applied.

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

†The differentiated digit only operates below 800 g - see para 1. above.

TEST PROCEDURE No 6/4C/41

The maximum permissible errors are:

- $\pm 0.5e$ for loads between 0 and 5000e;
- $\pm 1.0e$ for loads between 5001e and 20 000e, and
- $\pm 1.5e$ for loads above 20 000e.

1. Range of Indication

The mass indication should blank or show non-numerical characters not more than 10 verification scale intervals above the marked maximum capacity, Max.

2. Tare

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

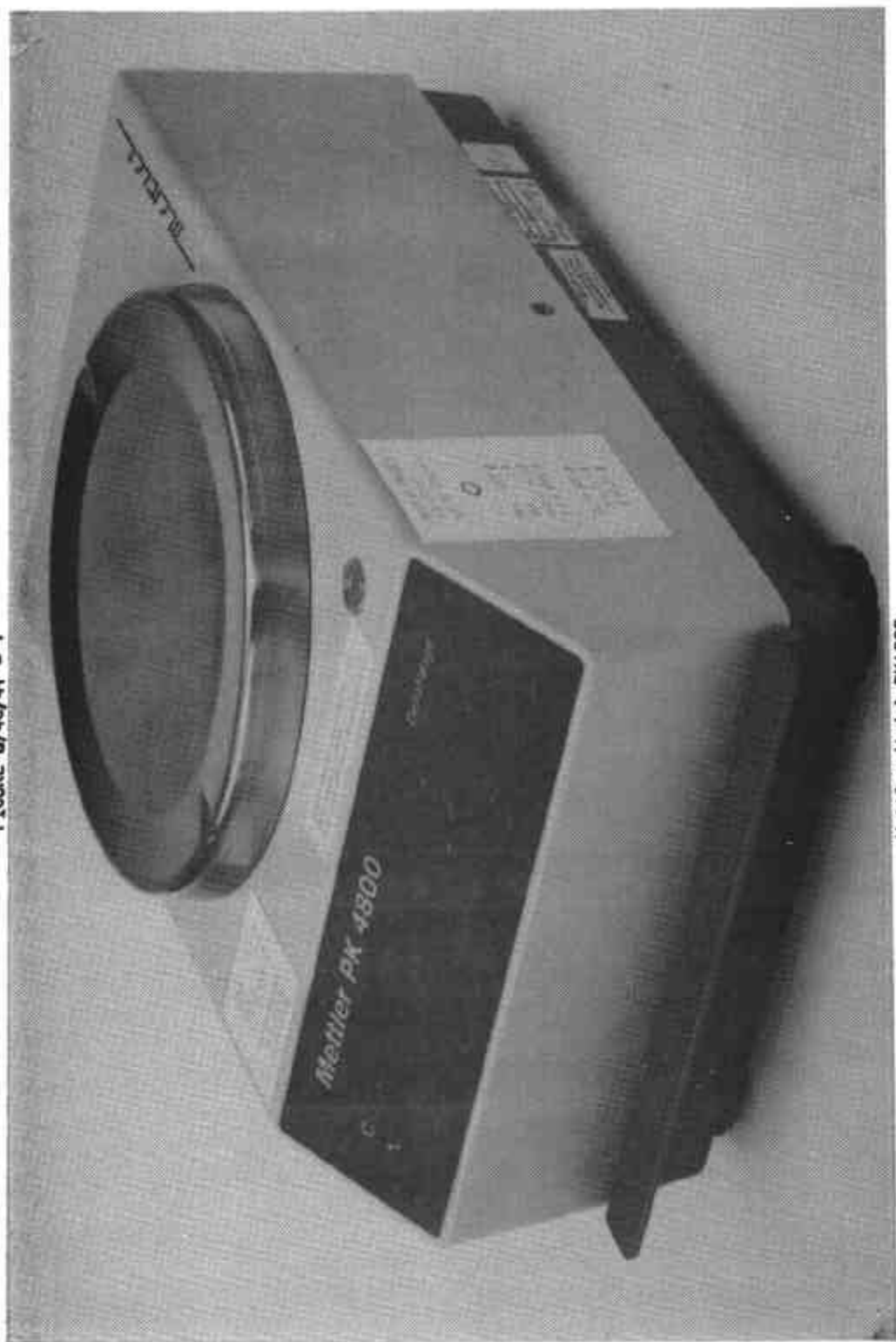
Place masses equal to 80% of maximum capacity on the load receptor and operate the tare bar. Then place masses up to 20% of the maximum capacity on the load receptor. The indication of these masses should be within the above accuracy requirements.

3. 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 to zero load.

6/4C/41
21/9/84

FIGURE 6/4C/41 - 1



Mettler Model PK4800