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CERTIFICATE OF APPROVAL No 6/4C/17 CANCELLED 0/

This is to certify that the patterns of the

Mettler P163 Weighing Instrument

submitted by Watson Victor Ltd, 95-99 Epping Road, North Ryde, New South Wales, 2113,

have been approved under the Weights and Measures (Patterns of Instruments) Regulations as being suitable for use for trade.

Date of Approval: 3 February 1976

patterns are described in Technical Schedule No 6/4C/17, and in drawings and specifications lodged with the Commission.

The approval is subject to review on or after 1 February 1981.

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/4C/17".

Signed

up

Executive Officer



CANCELLED

TECHNICAL SCHEDULE No 6/4C/17

Pattern: Mettler P163 Weighing Instrument

Submittor: Watson Victor Ltd, 95-99 Epping Road, North Ryde, New South Wales, 2113.

Date of Approval: 3 February 1976

Condition of Approval:

All instruments conforming to this approval shall be marked "NSC No 6/4C/17".

Description:

The pattern (see Figure 1) is a partially self-indicating weighing instrument (balance) of capacity 159,99 grams by 0,01-gram graduations (e)*.

The instrument is a single-pan beam balance with the load receptor and four removable substitution weights of 10, 20, 40 and 80 grams balanced by a fixed load (see Figures 2 and 3). The total value of the substitution weights removed from the beam is displayed in 10gram steps on a flash dial prefixing an optically projected scale of 9,9-gram capacity by 0,1-gram graduations (see Figure 1).

The complementary reading device of capacity 0,099 grams by 0,001gram increments (d_d) allows the operator to manually adjust the position of the 9,9-gram scale so as to indicate in 0,001-gram increments the distance between the index (pointer) and the 0,1-gram scale mark with an accuracy greater than that of visual interpolation.

A knob on the front of the instrument allows up to 10 grams of tare to be applied to the beam through a spring resistant. When tare is selected a "flag" marked T moves over an ungraduated tare scale. The flag is not visible until tare is selected.

^{*} Verification graduation value e = 0,01 gram; the graduation value of the last digit of the complementary reading device, which is differentiated from the other digits, is not significant to verification.

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A knob-operated zero adjustment is provided at the base of the instrument, which is also provided with a level indicator and three feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

A knob-operated locking device is accessible beneath the instrument. The cover is sealed on the instrument by a lead-and-wire seal as the instrument is too fragile for a stamping-plug seal.

The instrument is marked:

(a) adjacent to the weight indicator -

TT

Max	=	159,99 g	
Min	=	0,50 g	
e	=	0,01 g	
d _á T	=	0,001 g	
Т	Ξ	+10 g,	and

(b) "not for retail counter use".

Special Tests:

Level Sensitivity

- 1. When the instrument is tilted to a slope of 1 in 500 the bubble in the level indicator should move at least 2 mm.
- 2. When the instrument is tilted so that the bubble in the level indicator moves 2 mm, and when zero is reset in the tilted position, the instrument should satisfy the weighing-accuracy specification*, that is, $\frac{1}{2}$ graduation for the first 5000 graduations and ± 1 graduation for graduations over 5000.

Tare Indicator

The "flag" indicating tare has been selected should be fully visible when any tare value greater than 0,25 of a verification graduation (e) is selected.

^{*} The weighing-accuracy specification refers to the verificationgraduation value e = 0,01 gram; the graduation value of the last digit of the complementary reading device, which is differentiated from the other digits, is not significant to verification.



Mettler P163



Mettler P163 - Schematic Diagram

