

CERTIFICATE OF APPROVAL No 6/4C/16

CANCELLED 0

This is to certify that the pattern of the

Mettler E20 Weighing Instrument

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

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

Date of Approval: 15 October 1975

The pattern is described in Technical Schedule No 6/4C/16, and in drawings
and specifications lodged with the Commission.

The approval is subject to review on or after 1 November 1980.

All instruments conforming to this approval shall be marked with the approval
number "NSC No 6/4C/16".

Signed



Acting Executive Officer

CANCELLED

Cancelled
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NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/16

Pattern: Mettler E20 Weighing Instrument

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

Date of Approval: 15 October 1975

Condition of Approval:

All instruments conforming to this approval shall be marked "NSC No 6/4C/16".

Description:

The pattern (see Figure 1) is a self-indicating weighing instrument with an optically projected weight reading face graduated to 20 kg by 0,010-kg graduations.

The weighing mechanism (see Figures 2 and 3) consists of a load receptor supported by flexure plates affixed to two main levers which apply the load to a common vertical link and a spring-resistant mechanism. A weight graticule mounted on a lever connected to the vertical link is projected on to a screen on the front of the instrument. An air dashpot controlled by a knob on the front of the instrument provides adjustable damping.

A knob on the side of the instrument allows up to 5 kg of tare to be applied through a spring resistant. The selection of tare causes a red indicator marked "T" to appear. The tare is ungraduated.

Zero is adjusted by a knob on the side of the instrument. The instrument is provided with a level indicator and three feet; two of the feet are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

Adjustments for focus, length of indicator and position of scale-viewing aperture are provided behind a front panel.

The instrument is marked adjacent to the weight indicator:

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Max = 20 kg
Min = 0,200 kg
d = 0,010 kg
T = + 5 kg

and "not for retail counter use".

Special Tests:

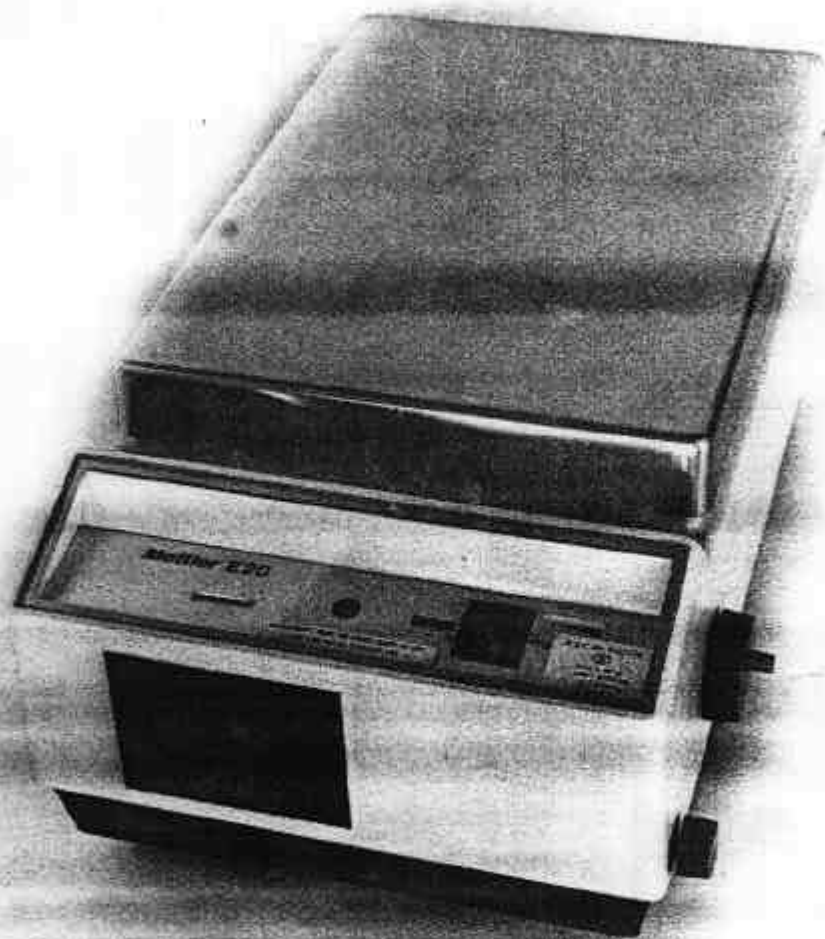
1. Level Sensitivity

When the instrument is tilted so that the bubble in the level indicator moves 2 mm, the zero should not change by more than 2 graduations, and when zero is reset in the tilted position the instrument should satisfy the weighing-accuracy specifications, that is $\pm \frac{1}{2}$ graduation for the first 500 graduations, and ± 1 graduation for graduations over 500 and up to 2000.

2. Tare Indicator

The red tare indicator marked "T" should be visible when any tare value greater than 0,25 d is selected.

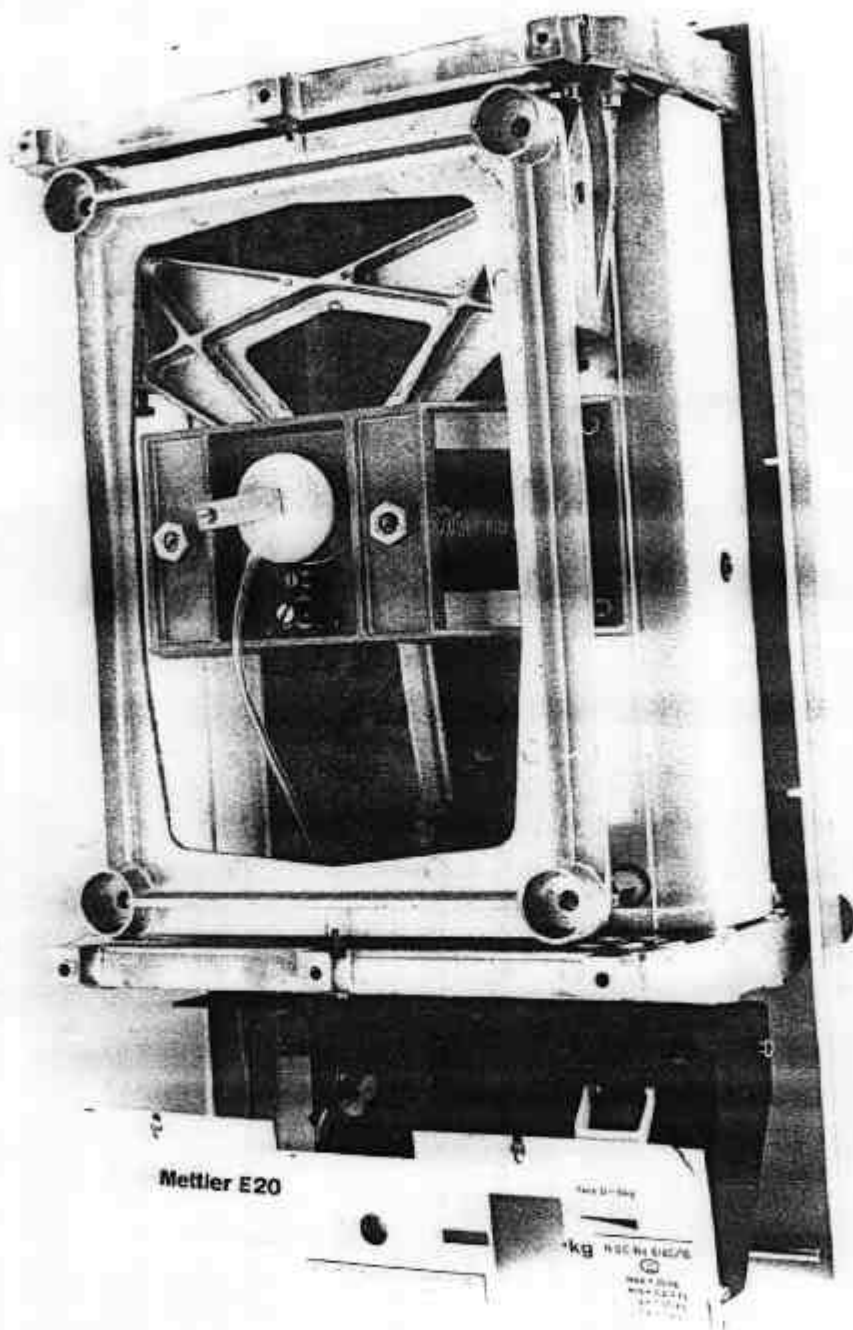
FIGURE 6/4C/16-1



Mettler B 20

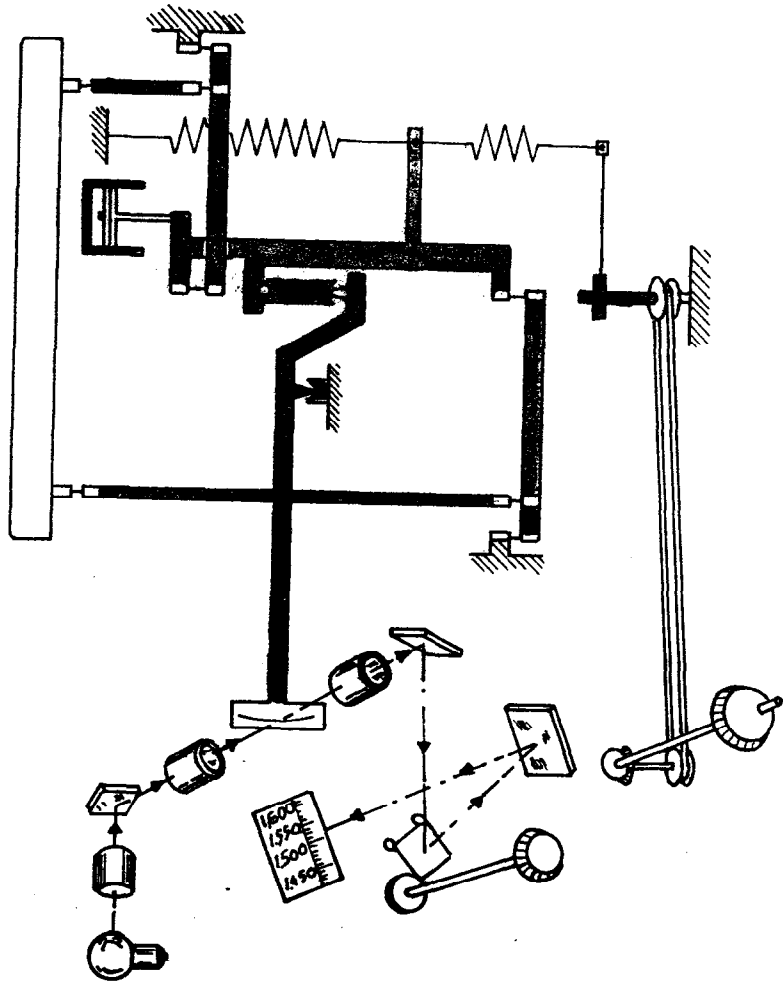
5/7/76

FIGURE 6/4C/16-2



Mettler E20

FIGURE 6/4C/16-3



Mettler E20 — Schematic Diagram

5/7/76