CERTIFICATE OF APPROVAL No 6/4C/22 CANCELLED 0/1

This is to certify that the patterns of the

Mettler P1210 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)
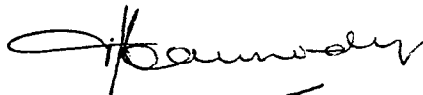Regulations as being suitable for use for trade.

Date of Approval: 3 February 1976

ىhe patterns are described in Technical Schedule No 6/4C/22, 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/22".

Signed

Executive Officer

9/9/76

CANCELLED

Cert. No.
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NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/22

Pattern: Mettler P1210 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/22".

Description:

The pattern (see Figure 1) is a partially self-indicating weighing
instrument (balance) of capacity 1199,9 grams by 0,1-gram
graduations (e)*.

The instrument is a single-pan beam balance with the load receptor
and a series of removable substitution weights balanced by a fixed
load (see Figures 2 and 3). The total value of the substitution
weights removed from the beam is displayed in 100-gram steps on a
flash dial prefixing an optically projected scale of 99-gram
capacity by 1-gram graduations (see Figure 1).

The complementary reading device of capacity 0,99 gram by 0,01-gram
increments (d_4) allows the operator to manually adjust the position
of the 99-gram scale so as to indicate in 0,01-gram increments the
distance between the index (pointer) and the 1-gram scale mark with
an accuracy greater than that of visual interpolation.

A knob on the front of the instrument allows up to 100 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.

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* Verification graduation value e = 0,1 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.

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 —

$$\boxed{II}$$

Max	=	1199,9 g
Min	=	5 g
e	=	0,1 g
d_{ω}	=	0,01 g
T	=	+ 100 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, $\pm \frac{1}{2}$ 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.

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* The weighing-accuracy specification refers to the verification-graduation value e = 0,1 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.
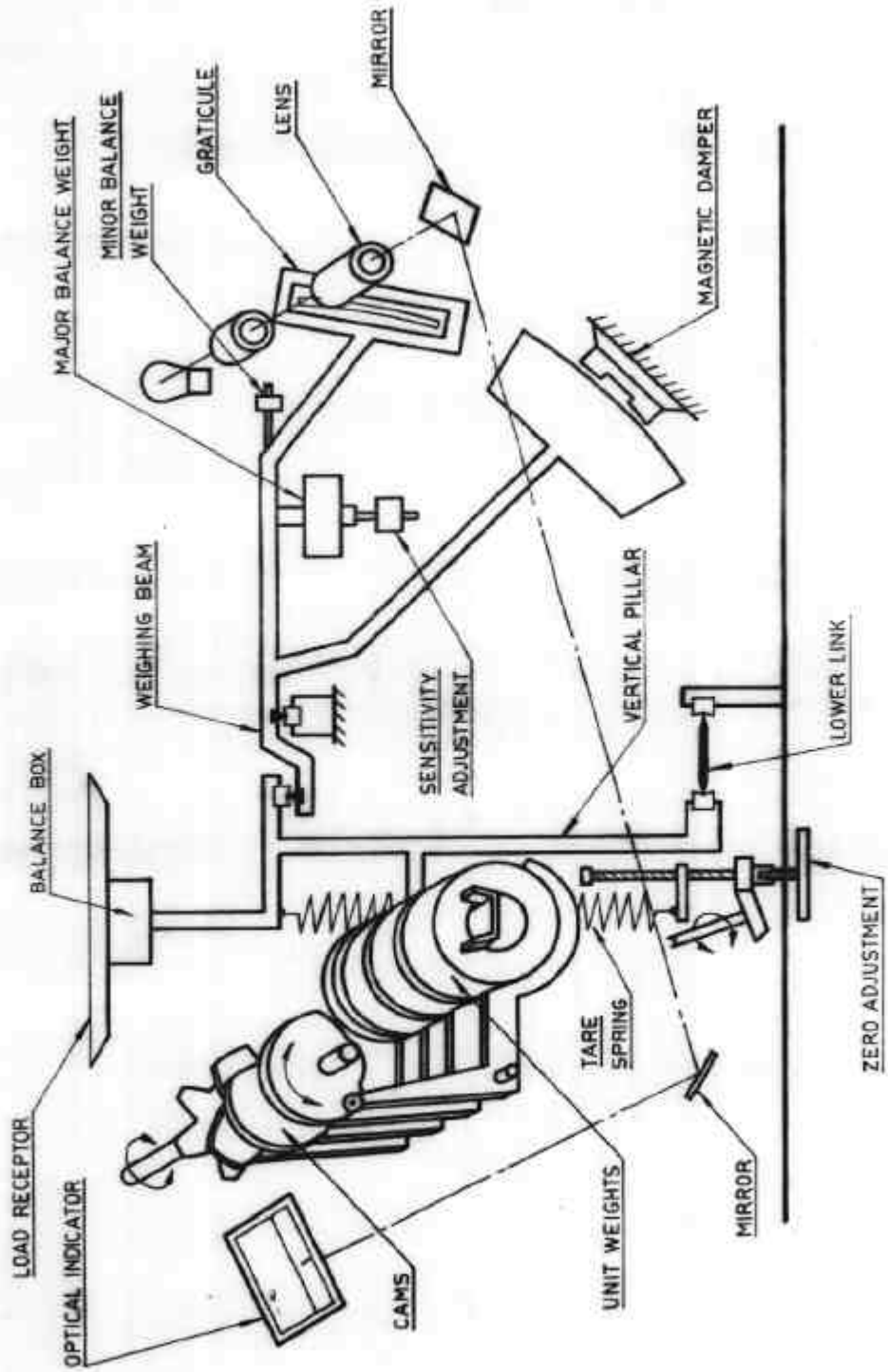
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Mettler P1210

FIGURE 6/4C/22 - 2
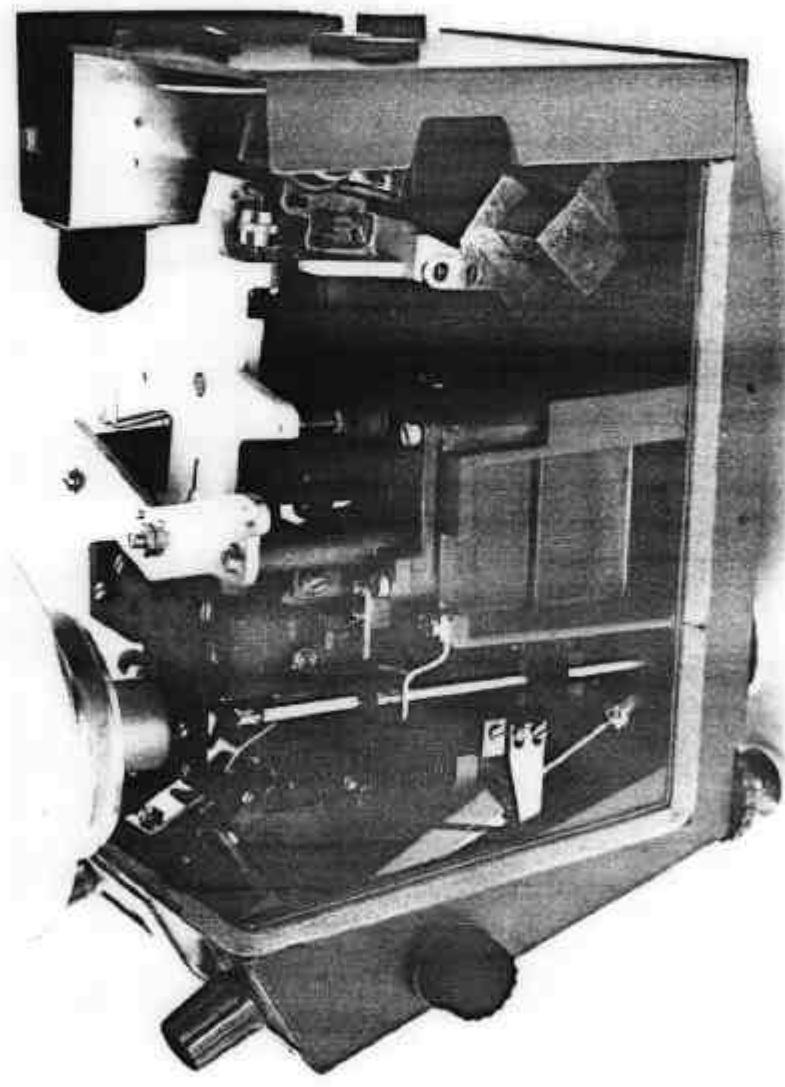

Mettler P1210 — Schematic Diagram

Labels in figure:
- MAJOR BALANCE WEIGHT
- MINOR BALANCE WEIGHT
- GRATICULE
- LENS
- MIRROR
- MAGNETIC DAMPER
- WEIGHING BEAM
- SENSITIVITY ADJUSTMENT
- VERTICAL PILLAR
- LOWER LINK
- BALANCE BOX
- LOAD RECEPTOR
- OPTICAL INDICATOR
- CAMS
- UNIT WEIGHTS
- TARE SPRING
- MIRROR
- ZERO ADJUSTMENT

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