N.S.W. 2113
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CERTIFICATE OF APPROVAL No 6/4C/13 CANCELLED 0/

This is to certify that the pattern of the

Mettler PS1200 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: 24 October 1975

The pattern is described in Technical Schedule No 6/4C/13, and in drawings .d 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/13".

Approval is granted on condition that the instrument is operated within an ambient room temperature range of 10°C to 30°C.

Signed

Acting Executive Officer

5/7/76

CANCELLED

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/13

Pattern: Mettler PS1200 Weighing Instrument

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

Date of Approval: 24 October 1975

Conditions of Approval:

1. The instrument is to be operated within an ambient room temperature range of 10°C to 30°C.

2. All instruments conforming to this approval shall be marked "NSC No 6/4C/13".

Description:

The pattern (see Figures 1 and 2) is a self-indicating weighing instrument of capacity 1200 g. The reading face is a digital indicator with 0,1-g increments.

The weighing mechanism (see Figure 3) comprises a load receptor supported by strings which change their frequency of oscillation in proportion to the applied load. The frequency of one string sets the period over which the frequency of the other string is counted, then applied to a memory and indicated as a digital weight.

Zero setting or taring is accomplished by means of a switch bar on the front of the instrument which sets zero to within ± 0,1 increment, and is indicated by alternate indications of + and - signs when within 0,25 graduation of zero. The removal of a tared load from the load receptor will result in the value of the tare rounded to the nearest 0,1 g being indicated with a - sign.

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 must be level when in use.

The instrument is marked adjacent to the weight indicator:

(II)

Max = 1200 g
Min = 5 g
d_d = 0,1 g
T = - 1200 g

and "not for retail counter use".

An output is provided for peripheral equipment. The use of peripheral equipment will not affect the operation of the weighing instrument.

Special Tests:

1. Level Sensitivity

   (a) When the instrument is tilted to a slope of 1 in 500 the bubble in the level indicator should move at least 2 mm.

   (b) 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, ± ½ graduation for the first 5000 graduations and ± 1 graduation for graduations over 5000.

2. Test Loads

   The application of the test loads specified in Table 1 and the display of these loads within the applicable tolerance in accordance with the Commission's digital testing procedures is one method of checking that the instrument operates in accordance with the approved design.

TABLE 1

Test Load in grams

0				
0,025				
0,075				
0,1	1,0	10,0	100,0	600,05
0,2	2,0	20,0	200,0	700,05
0,3	3,0	30,0	300,0	800,05
0,4	4,0	40,0	400,0	900,05
0,5	5,0	50,0	500,0	1000,05
0,6	6,0	60,0		1199,85
0,7	7,0	70,0		1199,95
0,8	8,0	80,0		1200,05
0,9	9,0	90,0		

FIGURE 6/4C/13-1

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FIGURE 6/4C/13-2

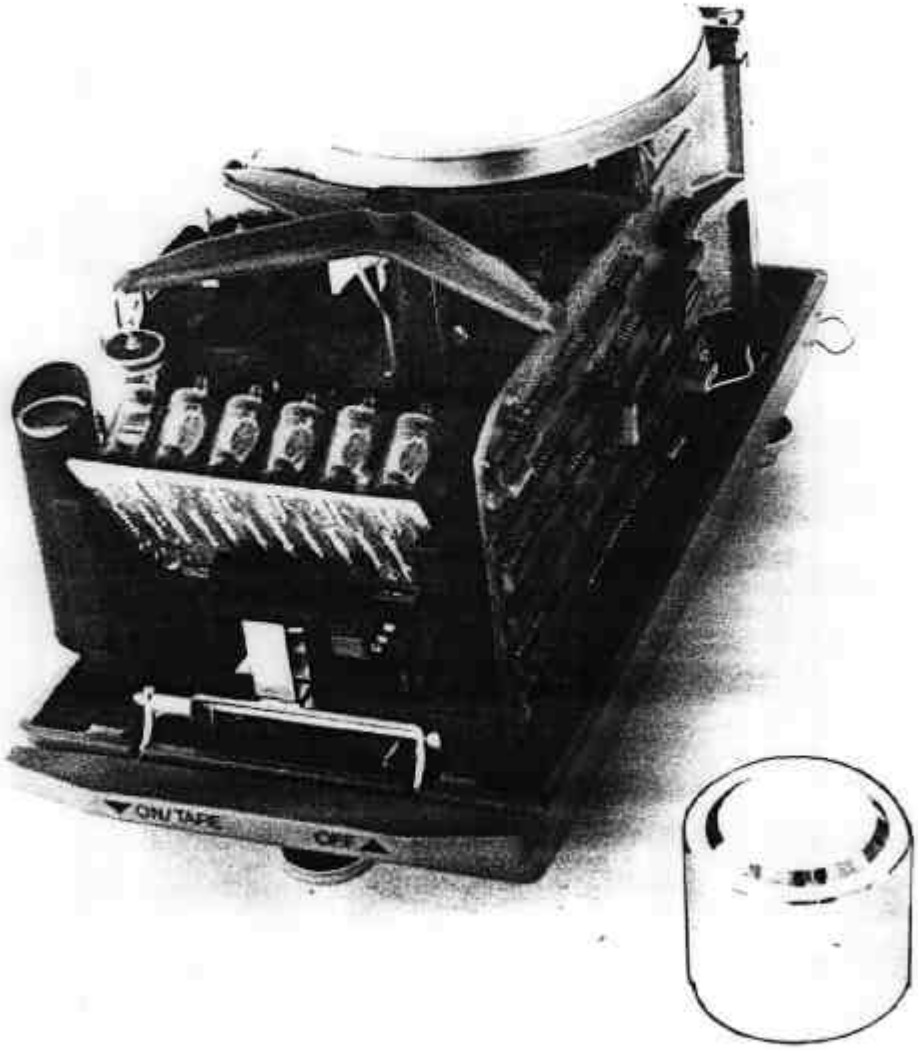

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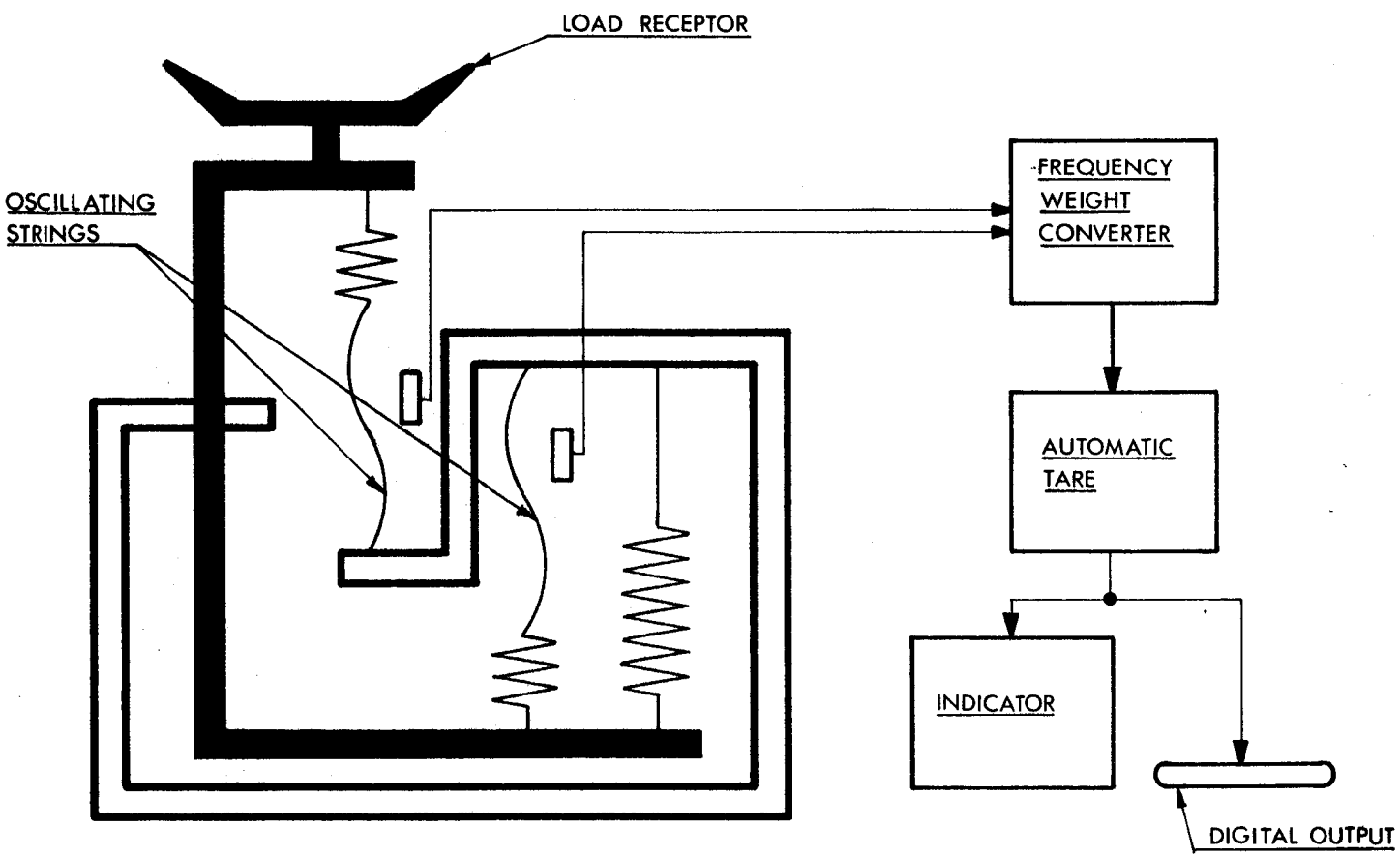
FIGURE 6/4C/13-3



Mettler PS 1200 — Schematic Diagram