



# CANCELLED

## NATIONAL STANDARDS COMMISSION

CERTIFICATE OF APPROVAL No 6/4C/24

This is to certify that the pattern of the  
Mettler PL 1200 Weighing Instrument

submitted by Watson Victor Limited,  
669 Warrigal Road,  
Chadstone, Victoria, 3148,

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

Pattern: approved 24/10/80

Class II weighing instrument of 1200 g capacity with 0,1 g  
verification scale intervals.

The pattern is described in Technical Schedule No 6/4C/24 issued  
on 7/11/80 and in drawings and specifications lodged with the  
Commission.

The approval is subject to review on or after 31 July 1985.

All instruments conforming to this approval shall be marked "NSC  
No 6/4C/24".

Signed

Executive Director

7/11/80



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No 6/4C/24

Pattern: Mettler PL 1200 Weighing Instrument

Submittor: Watson Victor Limited,  
669 Warrigal Road,  
Chadstone, Victoria, 3148.

### 1. Description of Pattern

The pattern (Figure 1) is a Class II electronic weighing instrument of capacity 1200,0 g by 0,1 g verification scale intervals (e)\*. The weighing operation is as shown in Figure 2.

#### 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  $\pm 0,25 d_d$ . Zero is then indicated by alternate indications of plus and minus signs to within  $0,25 d_d$ . The removal of a tared load from the weighing instrument will result in the value of the tare rounded to the nearest  $0,25 d_d$  being indicated with a minus sign.

#### 1.2 Levelling

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.

#### 1.3 Markings

The nameplate is marked with the following data:

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\*Verification scale interval  $e = 0,1$  g; the scale interval of the differentiated figure  $d_d = 0,01$  g is not significant to verification.

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Manufacturer's name  
 Serial number of instrument  
 NSC approval number in the form: NSC No 6/4C/24  
 Accuracy class in the form: II  
 Maximum capacity in the form: Max .....\*  
 Minimum capacity in the form: Min .....\*  
 Scale interval in the form:  $d_d = \dots\dots\dots*$   
 Verification scale interval in the form:  $e^d = \dots\dots\dots$   
 Maximum subtractive tare in the form: T = - .....\*

and NOT FOR RETAIL COUNTER USE.

1.4 Sealing

A lead and wire seal passes through two lugs on the body of the instrument (Figure 1).

2. Test Procedure

1. Accuracy Requirements

The maximum permissible errors are:

$\pm 0,5e$  for loads between 0 and 5000e; and  
 $\pm 1e$  for loads between 5001e and 20,000e.

2. 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,  $-0,5e$  for the first 5000 graduations and  $-1e$  for graduations over 5000.

3. 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 testing procedure is one method of checking that the instrument operates in accordance with the approved design.

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\* Repeated in vicinity of reading face.

4. Range of Indication

The maximum mass indicated should not exceed the maximum capacity (Max); above this indicated mass the indicator should be blank.

TABLE 1

Test Load in grams

0,0				
0,1	1,0	10,0	100,0	600,0
0,2	2,0	20,0	200,0	700,0
0,3	3,0	30,0	300,0	800,0
0,4	4,0	40,0	400,0	900,0
0,5	5,0	50,0	500,0	1000,0
0,6	6,0	60,0		1100,0
0,7	7,0	70,0		1200,0
0,8	8,0	80,0		
0,9	9,0	90,0		

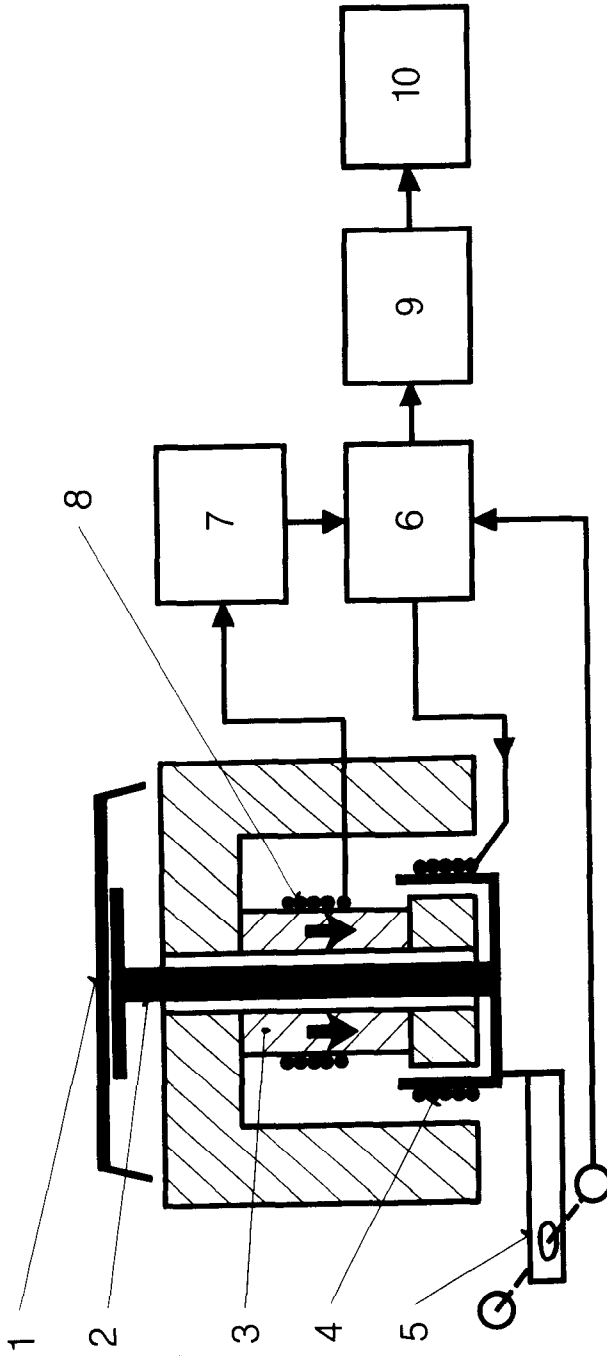
FIGURE 6/4C/24 - 1



Mettler PL 1200 showing Seal

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FIGURE 6/4C/24 - 2



- 1 Weighing pan
- 2 Pan holder
- 3 Magnet
- 4 Coil
- 5 Optical scanning unit

- 6 Variable-gain amplifier/AD converter
- 7 Constant current source
- 8 Temperature sensor
- 9 Tare calculator
- 10 Digital display

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