National Standards Commission

Certificate of Approval

No 6/4C/87

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

Mettler Toledo Model PB3002 Weighing Instrument

submitted by Mettler Toledo Limited
525 Graham Street
Port Melbourne VIC 3207.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1 September 1999.
This approval expires in respect of new instruments on 1 September 2000.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/87 and only by persons authorised by the submittor.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

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It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 1 August 1994

- A Mettler Toledo model PB3002 class II self-indicating weighing instrument of 3100 g maximum capacity.

Variant: approved 18 August 1995

1. Various models of the GB, PB and SB series as listed in Tables 1 and 2.

Technical Schedule No 6/4C/87 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/87 dated 27 November 1995
Technical Schedule No 6/4C/87 dated 27 November 1995 (incl. Tables 1 & 2, and Test Procedure)
Figures 1 to 4 dated 27 November 1995

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

National Standards Commission

TECHNICAL SCHEDULE No 6/4C/87

Pattern: Mettler Toledo Model PB3002 Weighing Instrument.

Submittor: Mettler Toledo Limited
525 Graham Street
Port Melbourne VIC 3207.

1. Description of Pattern

A Mettler Toledo model PB3002 class II self-indicating weighing instrument (Figure 1 and Table 1) of 3 100 g maximum capacity with a verification scale interval (e) of 0.1 g and a scale interval (d) of 0.01 g.

The instrument may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

The instrument is approved for use over a temperature range of +10°C to +30°C, and must be so marked.

1.1 Zero and Tare

Zero setting and taring are accomplished by means of a common switch bar that sets zero to within ±0.5d, as indicated by the right-hand digit (d) which is differentiated.

The instrument has an initial zero-setting device with a range of up to 20% of the maximum capacity of the instrument.

Tare capacity is up to the maximum capacity of the instrument.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Levelling

The instrument is provided with a level indicator and adjustable feet.

1.4 Sealing Provision

Provision is made for the instrument to be sealed by the use of destructible labels placed over the calibration cover located on the side of the instrument.

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1.5 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.6 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
NSC approval number	NSC No 6/4C/87
Accuracy class	(II)
Serial number	
Maximum capacity	Max ..... g *
Minimum capacity	Min ..... g *
Verification scale interval	e = ... g *
Scale interval	d = ... g *
Special temperature limits	10°C / 30°C

* Repeated in the vicinity of each reading face.

In addition, instruments are marked NOT FOR RETAIL COUNTER USE, NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variant 1

Various models of the GB, PB and SB series as listed in Tables 1 and 2. Figures 2 and 3 show alternative housings and load receptors typical of some models.

Some instruments listed in Table 2 have the scale interval (d) only displayed for part of the weighing range.

Provision is made for SB series instruments to be sealed by the use of destructible labels placed over the adjustment screw located under the platter.

TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within ±0.25e (or ±0.5d where appropriate) at no load, are:

±0.5e for loads from 0 to 5 000e;
±1.0e for loads over 5 000e up to 20 000e; and
±1.5e for loads over 20 000e.

TABLE 1

Model		GB1302	GB1501	GB2002	GB3001	GB3002	GB6001	GB16001
Maximum capacity	(g)	1310	1510	2100	3100	3100	6100	16100
Verification scale interval, e	(g)	0.1	0.1	0.1	0.1	0.1	1	1
Scale interval, d	(g)	0.01	(=e)	0.01	(=e)	0.01	0.1	0.1

Model		PB153	PB302	PB303	PB602	PB801	PB1501	PB1502
Maximum capacity	(g)	151	310	310	610	810	1510	1510
Verification scale interval, e	(g)	0.01	0.01	0.01	0.1	0.1	0.1	0.1
Scale interval, d	(g)	0.001	(=e)	0.001	0.01	(=e)	(=e)	0.01

Model		PB3001	PB3002	PB5001	PB8000	PB8001
Maximum capacity	(g)	3100	3100	5100	8100	8100
Verification scale interval, e	(g)	0.1	0.1	1	1	1
Scale interval, d	(g)	(=e)	0.01	0.1	(=e)	0.1

Approved GB and PB models where the scale interval (d) is displayed for all of the weighing range

TABLE 2

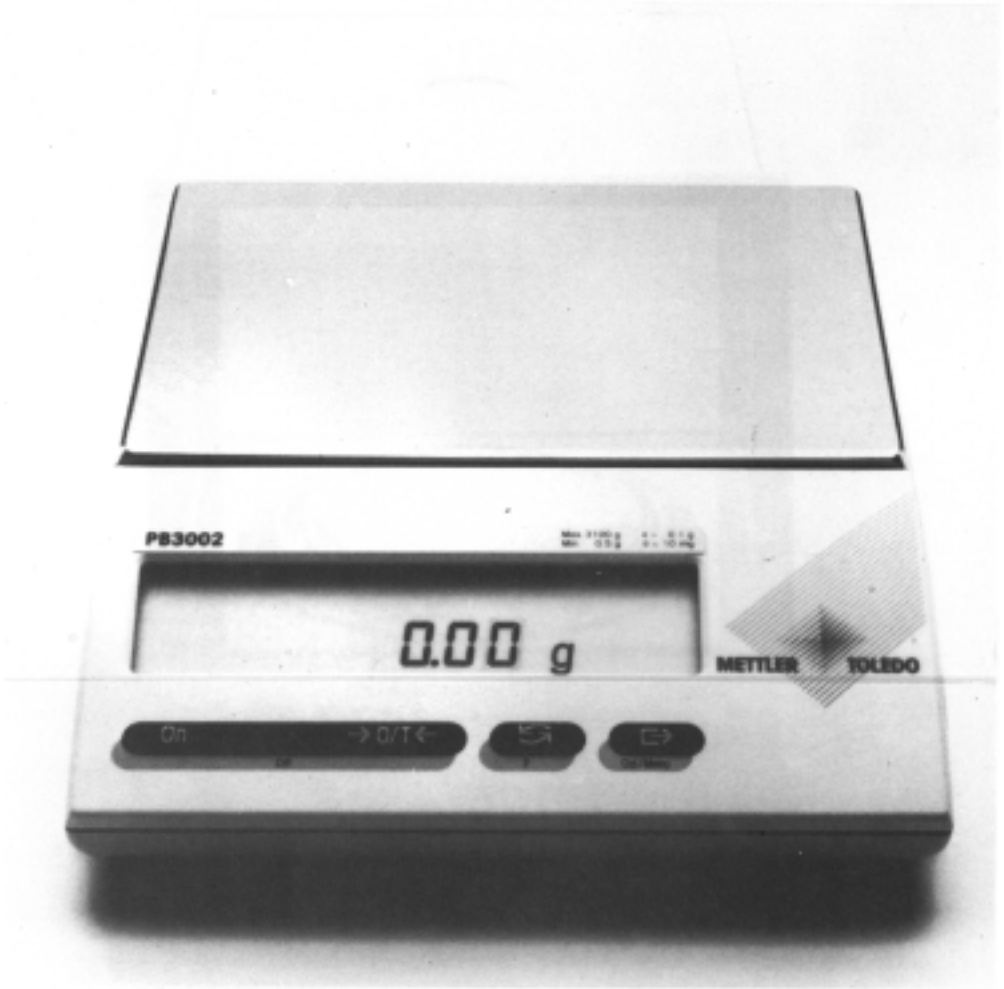
Model		SB8000	SB8001	SB12001	SB16000	SB16001	SB32000
Maximum capacity	(g)	8100	8100	12100	16100	16100	32100
Verification scale interval, e	(g)	1	1	1	1	1	1
Scale interval, d	(g)	(=e)	0.1	0.1	(=e)	0.1	(=e)

Approved SB models where the scale interval (d) is displayed for all of the weighing range

Model		GB3002DR	PB303DR	PB3002DR	SB16001DR	SB24001DR	SB32001DR
Maximum capacity	(g)	3100	310	3100	16100	24100	32100
Verification scale interval, e	(g)	0.1	0.01	0.1	1	1	1
Scale interval, d	(g)	0.01	0.001	0.01	0.1	0.1	0.1
for first ... g		600	60	600	3200	4800	6400

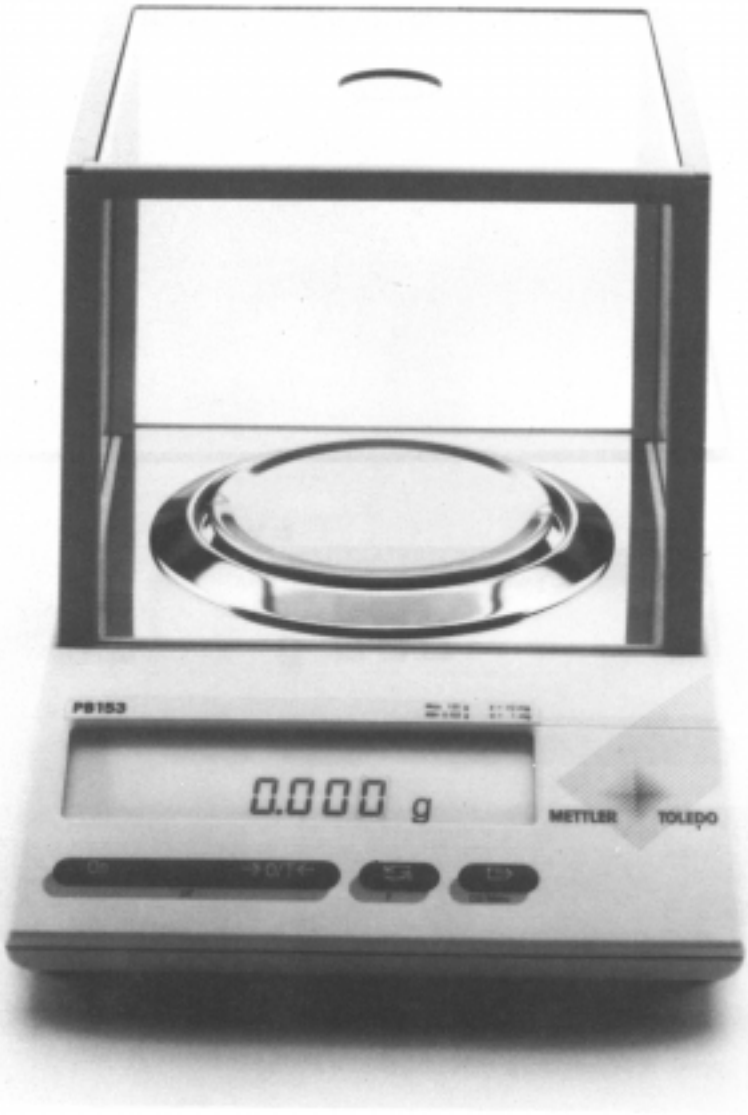
Approved models where the scale interval (d) is only displayed for part of the weighing range

FIGURE 6/4C/87 - 1



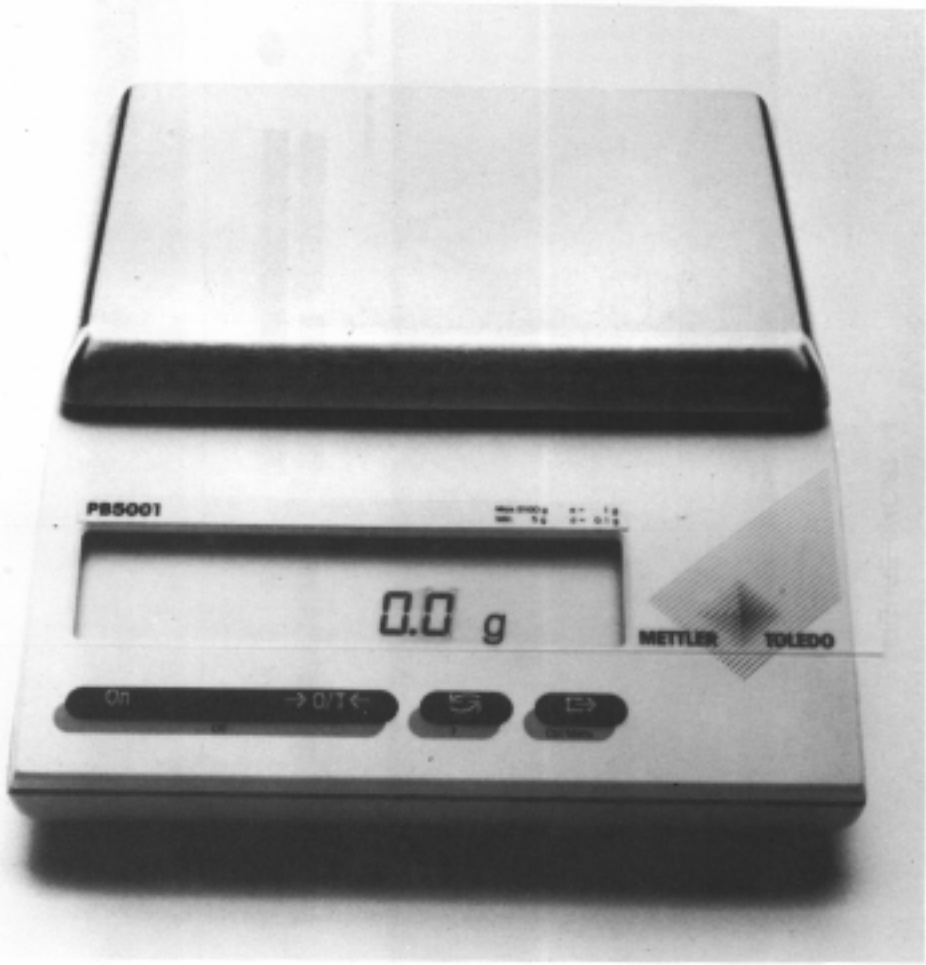
Mettler Toledo Model PB3002 Weighing Instrument

FIGURE 6/4C/87 - 2



Model PB153

FIGURE 6/4C/87 - 3



Model PB5001

FIGURE 6/4C/87 - 4

Model SB24001DR