



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change

Certificate of Approval No 6/4C/268

Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

Mettler Toledo Model ML6001E Weighing Instrument

submitted by Mettler-Toledo Limited
 Unit 3, 220 Turner Street
 Port Melbourne VIC 3207.

- A. In Certificate of Approval No 6/4C/268 dated 6 December 2010, the FILING
 ADVICE is amended by:
- (i) Amending the reference to the Figures to now read:
- “Figures 1 and 3 dated 6 December 2010
 Figure 2 dated 1 April 2011”
- (Note that Figure 2 dated 6 December 2010 is replaced the Figure attached
herein.)
- (ii) Adding the following:
- “Notification of Change No 1 dated 1 April 2011”
- B. In Technical Schedule No 6/4C/268 dated 6 December 2010, clause
 1.7 Sealing Provision is amended by adding the following after the
 reference to Figure 2:
- “... or similar method.”

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'M. J. ...', written over a horizontal line.



Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 6/4C/268

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

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

Mettler Toledo Model ML6001E Weighing Instrument

submitted by Mettler-Toledo Limited
 Unit 3, 220 Turner 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.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 January 2016, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4C/268' and only by persons authorised by the submittor.

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 National Measurement Institute (NMI) 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 document NMI P 106.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 3 December 2010

- A Mettler Toledo model ML6001E class II single interval self-indicating non-automatic weighing instrument of 6200 g maximum capacity with a verification scale interval of 1 g. Instruments may also be known as Mettler Toledo NewClassic SG series

Variants: approved 3 December 2010

1. Certain other ML models of high accuracy class II weighing instruments as listed in Table 1.
2. Certain MS models of medium accuracy class III multiple range weighing instruments as listed in Table 2.

Technical Schedule No 6/4C/268 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/268 dated 6 December 2010
Technical Schedule No 6/4C/268 dated 6 December 2010 (incl. Tables 1 and 2,
and Test Procedure)
Figures 1 to 3 dated 6 December 2010



Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

TECHNICAL SCHEDULE No 6/4C/268

Pattern: Mettler Toledo Model ML6001E Weighing Instrument

Submitter: Mettler-Toledo Limited
Unit 3, 220 Turner Street
Port Melbourne VIC 3207

1. Description of Pattern

A Mettler Toledo model ML6001E high accuracy class II single interval self-indicating non-automatic weighing instrument (Figure 1 and Table 1) 6200 g maximum capacity with a verification scale interval (e) of 1 g. Instruments may also be known as NewClassic SG series of the same model.

The instruments are fitted with differentiated scale interval (d) of 0.1 g.

The instruments use strain gauge load cell and have a liquid crystal display (LCD).

Instruments are approved for use over a limited temperature range of 10°C to 30°C, and are so marked. Instruments are not for trading direct with the public, and are so marked.

Power is supplied by a Switching Power Supply model PSM11R-120 AC/DC mains adaptor (12 V DC, 0.84 A); the submitter should be consulted regarding the acceptability of alternative power supply units.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices.

1.1 Zero and Tare

Instruments have an initial zero-setting device with a nominal range of not more than 20% of the maximum capacity of the instrument.

Instruments have a combined semi-automatic zero-setting and subtractive tare balancing device (operated by the '0/T' key). Operation of this device zeroes the instrument if the load is within the zero-setting range (up to 4% of the maximum capacity of the instrument), otherwise the instrument is tared. The subtractive taring device operates up to the maximum capacity of the instrument.

A zero-tracking device may also operate to automatically correct to within $\pm 0.25e$ (or $\pm 0.5d$ where $d < e$) whenever the instrument comes to rest with the display indicating zero (including net zero).

1.2 Alternative Units

Use of units other than kilograms (kg), grams (g), milligrams (mg) are not approved for trade use.

1.3 Other Functions

Instruments may be fitted with a number of additional functions, such as Piece Counting, Percent Weighing, Check Weighing, Statistics, Net Total Formulation, Totalling, Dynamic Weighing, Multiplication Factor Weighing, and Division Factor Weighing.

These functions and displays are not approved for trade use.

1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice stating 'Instrument must be level when in use', or similar wording.

1.5 Display Check

A display check is initiated whenever power is applied.

1.6 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Mettler Toledo
Indication of accuracy class	Ⓜ or ⓂⓂ (#1)
Pattern approval mark for the instrument	NMI 6/4C/268
Maximum capacity	<i>Max</i> mg, g or kg (#2)
Minimum capacity	<i>Min</i> mg, g or kg (#2)
Verification scale interval	<i>e</i> = mg, g or kg (#2)
Verification scale interval	<i>d</i> = mg, g or kg (#2)
Serial number of the instrument
Special temperature limits	...°C to ...°C

(#1) For medium accuracy class Ⓜ instruments refer to variant 2.

(#2) These markings are also shown near the display of the result if they are not already located there.

In addition, instruments shall carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

1.7 Sealing Provision

For high accuracy class Ⓜ instruments (including the pattern), sealing of the calibration adjustment is provided by the use of destructible adhesive labels over the calibration switch, and one of the screws that prevent separation of the casing of the instrument (Figure 2).



1.8 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variants

2.1 Variant 1

Certain other ML models of high accuracy class Ⓜ weighing instruments as listed in Table 1. Instruments are similar to the pattern including the same limited temperature range.

In each case the subtractive taring device operates up to the maximum capacity of the instrument.

2.2 Variant 2

Certain MS models of medium accuracy class M_2 weighing instruments as listed in Table 2. Instruments are similar to the pattern but do not have a differentiated scale interval and they are approved as multiple range instruments.

Instruments are approved for use over a temperature range of $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$, and are so marked.

Instruments are sealed in a similar manner to that shown in Figure 2.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

TABLE 1 – The **Pattern** and Variant 1
ML models of high accuracy class **II** – temperature range of +10°C to +30°C

Model	Maximum Capacity (g)	Verification Scale Interval (e) (g)	Differential Scale Interval (d) (g)	Minimum Capacity (g)	Tare (g)
ML83E	82	0.01	0.001	0.02	82
ML103E	120	0.01	0.001	0.02	120
ML602E	620	0.1	0.01	0.5	620
ML802E	820	0.1	0.01	0.5	820
ML1002E	1020	0.1	0.01	0.5	1020
ML1502E	1520	0.1	0.01	0.5	1520
ML601E	620	0.1	0.1	5	620
ML1501E	1520	0.1	0.1	5	1520
ML5001E	5200	1	0.1	5	5200
ML6001E	6200	1	0.1	5	6200
ML8001E	8200	1	0.1	5	8200

TABLE 2 – Variant 2
MS models of medium accuracy class **III** – temperature range of +5°C to +40°C

All MS models listed below are multiple range instruments

Model	Maximum Capacity (g)	Verification Scale Interval (e) (g)	Minimum Capacity (g)	Tare (g)
MS10KLE	6000/10 000	2/5	40/100	10 000
MS12KLE	6000/12 000	2/5	40/100	12 000
MS15KLE	6000/15 000	2/5	40/100	15 000
MS20KLE	15 000/20 000	5/10	100/200	20 000
MS24KLE	15 000/24 000	5/10	100/200	24 000
MS30KLE	15 000/30 000	5/10	100/200	30 000

FIGURE 6/4C/268 – 1



Mettler Toledo Model ML6001E Weighing Instrument

FIGURE 6/4C/268 – 2



Apply
destructible
labels here

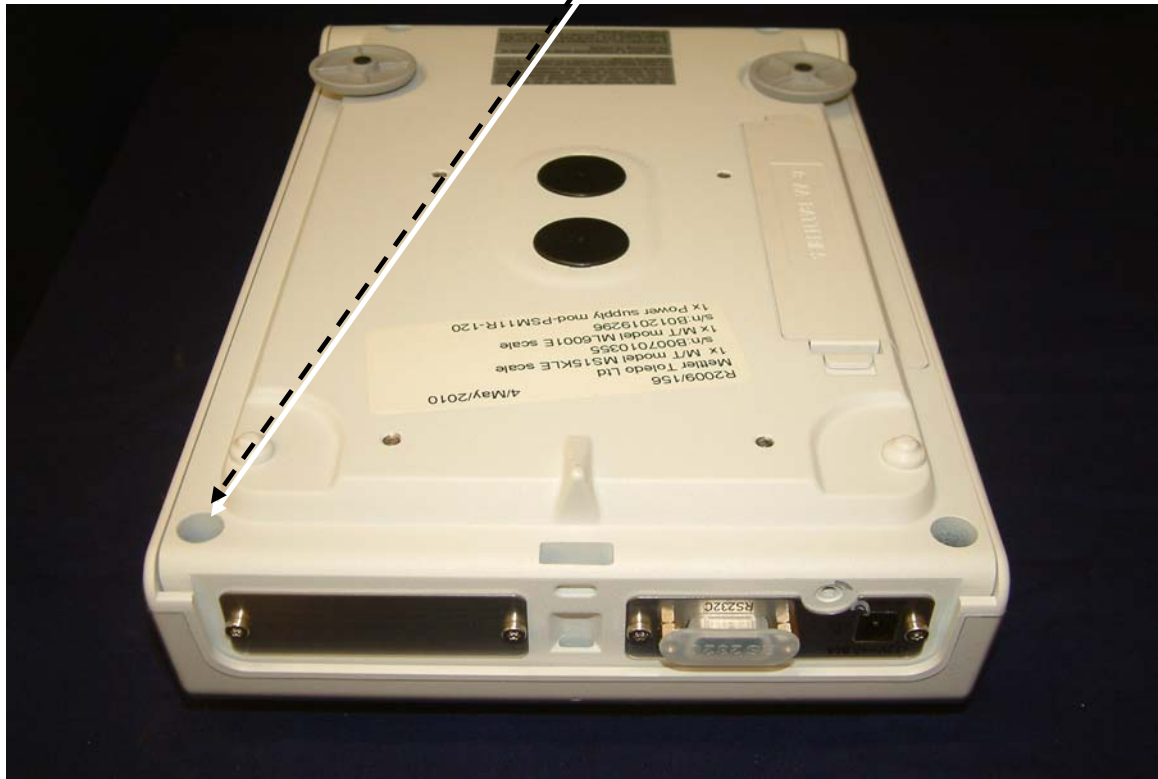


FIGURE 6/4C/268 – 3



Mettler Toledo Model MS15KLE Weighing Instrument