



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 6/4D/300

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 instruments herein described.

Mettler Toledo Model 8442 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.

This approval becomes subject to review on **1/01/17**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	21/12/01
1	Pattern & variant 1 approved – certificate issued	6/03/02
2	Variant 2 approved – interim certificate issued	24/01/05
3	Variant 2 approved – certificate issued	24/02/05
4	Pattern & variants 1 & 2 reviewed – notification of change issued	12/12/07
5	Pattern & variants 1 & 2 reviewed & updated – certificate issued	31/01/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI (or NSC) 6/4D/300' 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.

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

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



Dr A Rawlinson

TECHNICAL SCHEDULE No 6/4D/300

1. Description of Pattern

approved on 21/12/01

A Mettler Toledo model 8442 class III non-automatic self-indicating multi-interval price-computing weighing instrument (Figure 1) with a verification scale interval (e_1) of 0.002 kg up to 6 kg and a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

Instruments have unit price to \$9999.99/kg and price to \$9999.99, and are fitted with a price look up (PLU) facility.

Instruments may have the purchasers' indicator mounted on a column (Figure 1) or mounted on the body of the instrument with the column stored within the instrument (Figure 2).

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

Instruments are fitted with an interface for connection of a cash draw and/or for downloading of PLU data (product names, unit pricing and pre-set tare values).

Instruments may be set to PRE PACK mode for producing labels for pre-packed articles.

Instruments are approved for use over a temperature range of 0°C to +40°C and must be so marked.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e_1$ whenever power is applied and whenever the instrument comes to rest within $0.5e_1$ of zero.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or a non-automatic keyboard-entered subtractive pre-set taring device may be fitted. Each device has a capacity of up to 6 kg maximum capacity. The pre-set tare values may be associated with PLU items.

1.3 Display Check

A display check is initiated whenever power is applied. The software version number is also displayed at this time.

1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Provision is made for access to the calibration adjustments to be sealed by means of a destructible label across the electronics cover located under the load receptor.

1.7 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI (or NSC) 6/4D/300
Maximum capacity	Max/..... g or kg #
Minimum capacity	Min g or kg #
Verification scale interval	e =/..... g or kg #
Maximum subtractive tare	T = -..... g or kg
Serial number of the instrument
Special temperature limits	0°C to +40°C

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

2. Description of Variant 1 approved on 17/03/98

With a verification scale interval (e_1) of 0.005 kg up to 15 kg and a verification scale interval (e_2) of 0.01 kg from 15 kg up to the maximum capacity of 30 kg.

The tare devices, if fitted, each have a maximum capacity of 15 kg.

3. Description of Variant 2 approved on 24/01/05

The pattern and variant 1 with an alternative keyboard and an alternative column-mounted display (Figure 3).

TEST PROCEDURE No 6/4D/300

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

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

For multi-interval instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

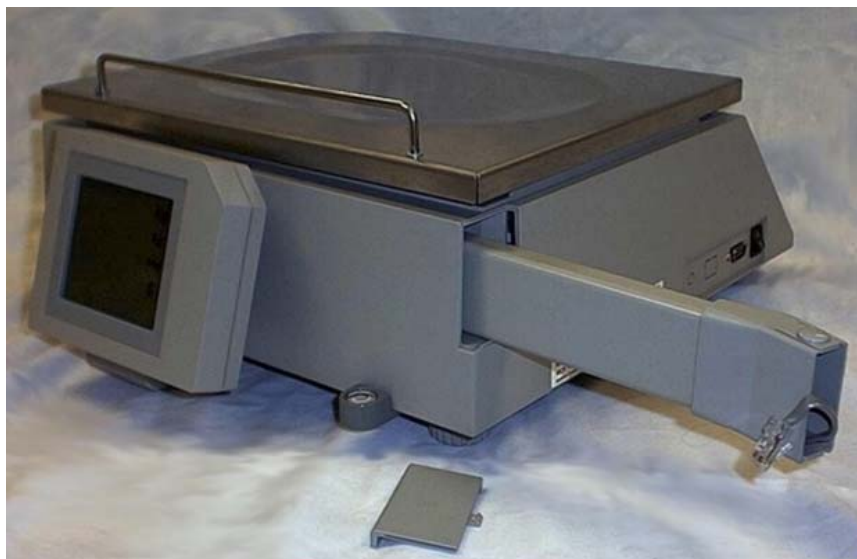
Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

FIGURE 6/4D/300 – 1



Mettler Toledo Model 8442 Weighing Instrument

FIGURE 6/4D/300 – 2



Showing Alternative Purchaser Display Mounting and Storage of Display Column

FIGURE 6/4D/300 – 3



Mettler Toledo Model 8442 With Alternative Keyboard and Display – Variant 2

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