6/4C/253
18 December 2013

Australian Government
National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation

Certificate of Approval No 6/4C/253

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

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

Mettler Toledo Model JL1502-G Weighing Instrument

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

has been cancelled in respect of new instruments as from 1 February 2014.

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

Australian Government

National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

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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 April 2013, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4C/253' and only by persons authorised by the submittor.

…./2

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 5 March 2008

- A Mettler Toledo model JL1502-G single interval self-indicating weighing instrument high accuracy class (II) of 1510 g maximum capacity.

Variants: approved 5 March 2008

1. Certain other models of the JL…-G series as listed in Table 1.
2. Certain models of the PL…-S series as listed in Table 2.

Technical Schedule No 6/4C/253 describes the pattern and variants 1 and 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/253 dated 28 April 2008
Technical Schedule No 6/4C/253 dated 28 April 2008 (incl. Tables 1 & 2, and Test Procedure)
Figures 1 to 3 dated 28 April 2008

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/253

Pattern: Mettler Toledo Model JL1502-G Weighing Instrument

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

1. Description of Pattern

A Mettler Toledo model JL1502-G (#) single interval self-indicating weighing instrument high accuracy class (II) of 1510 g maximum capacity (Figure 1 and Table 1).

(#) The instrument model number may include an additional '/A03' suffix.

The instruments use a strain gauge type load cell and have a liquid crystal display (LCD). The instruments are single range instruments with a verification scale interval (*e*) of 0.1 g and a differentiated scale interval (*d*) of 0.01 g (differentiated by use of brackets, e.g. 0.0[1] g).

The pattern has a 160 mm circular platter. Instruments may have a windshield provided, in which case an 86 mm circular platter is used (Figure 3).

Instruments are not for trading direct with the public, and are so marked.

Instruments are approved for use over a temperature range of +10ºC to +30ºC, and are so marked.

Power is supplied by an AC/DC mains adaptor. The AC/DC mains adaptor supplied was an APX Technologies model AP2805EPR (12 V DC, 1 A). Alternatively 4 × 1.5 V AA type batteries may be used.

Note: The submittor should be consulted regarding the acceptability of alternative power supplies, or battery types.

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

Note: The approved instrument should be configured in 'approved' status mode, and the '1/10d' function must be disabled.

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.

1.1 Zero and Tare

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

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

1.2 Other Units

Use of units other than kilograms (kg) or grams (g) is not approved for trade use.

1.3 Management Functions

Instruments may be fitted with a number of additional functions which display values that are not weighing results, such as counting and percentage. The displays of such values are identified by symbols, e.g. 'pcs' or '%'. These functions and displays are not approved for trade use.

1.4 Display Check

A display check is initiated as part of the 'power on' sequence.

1.5 Levelling

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

1.6 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.7 Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Mettler Toledo Limited
Indication of accuracy class	(III)
Pattern approval mark for the instrument	NMI 6/4C/253
Manufacturer's designation (model number)	..... #
Maximum capacity	*Max* ..... kg or g *
Minimum capacity	*Min* ..... kg or g *
Verification scale interval	*e* = ... kg or g *
Actual scale interval	*d* = ... kg or g *
Serial number of the instrument	.....
Special temperature limits	+10ºC to +30ºC

\# The instrument model number may include an additional '/A03' suffix (JL series instruments) or '/A' or '/A03' suffix (PL series instruments).

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

Instruments are not for trading direct with the public, and are so marked.

1.8 Sealing Provision

Sealing of the calibration adjustment is provided by the use of a destructible adhesive label on the rear of the instrument to prevent access to the calibration switch (Figure 2).

2. Description of Variants

2.1 Variant 1

Certain other models of the JL…-G series weighing instruments of high accuracy class ⓘⅡ as listed in Table 1. These models are in other respects the same as the pattern (model JL1502-G).

TABLE 1

Model Number (#)	Maximum Capacity (*Max*) g	Minimum Capacity (*Min*) g	Verification Scale (*e*) g	Differentiated Scale Interval (*d*) g
JL602-G	610	0.5	0.1	0.01
JL802-G	810	0.5	0.1	0.01
JL1501-G	1510	5	0.1	0.1
JL1502-G	1510	0.5	0.1	0.01
JL5001-G	5100	5	1	0.1
JL7001-G	7100	5	1	0.1

(#) For JL series instruments, the model number may include an additional '/A03' suffix.

2.2 Variant 2

Certain models of the PL…-S series weighing instruments of high accuracy class ⓘⅡ as listed in Table 2. These models are in other respects the same as the pattern (model JL1502-G). Figure 3 shows a typical JL/PL series weighing instrument with a windshield.

TABLE 2

Model Number (#)	Maximum Capacity (*Max*) g	Minimum Capacity (*Min*) g	Verification Scale (*e*) g	Differentiated Scale Interval (*d*) g
PL83-S	81	0.02	0.01	0.001
PL601-S	610	5	0.1	0.1
PL602-S	610	0.5	0.1	0.01
PL802-S	810	0.5	0.1	0.01
PL1501-S	1510	5	0.1	0.1
PL1502-S	1510	0.5	0.1	0.01
PL6000-S	6100	50	1	1
PL6001-S	6100	5	1	0.1
PL8000-S	8100	50	1	0.1
PL8001-S	8100	5	1	0.1

(#) For PL series instruments, the model number may include an additional '/A' or '/A03' suffix.

TEST PROCEDURE

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

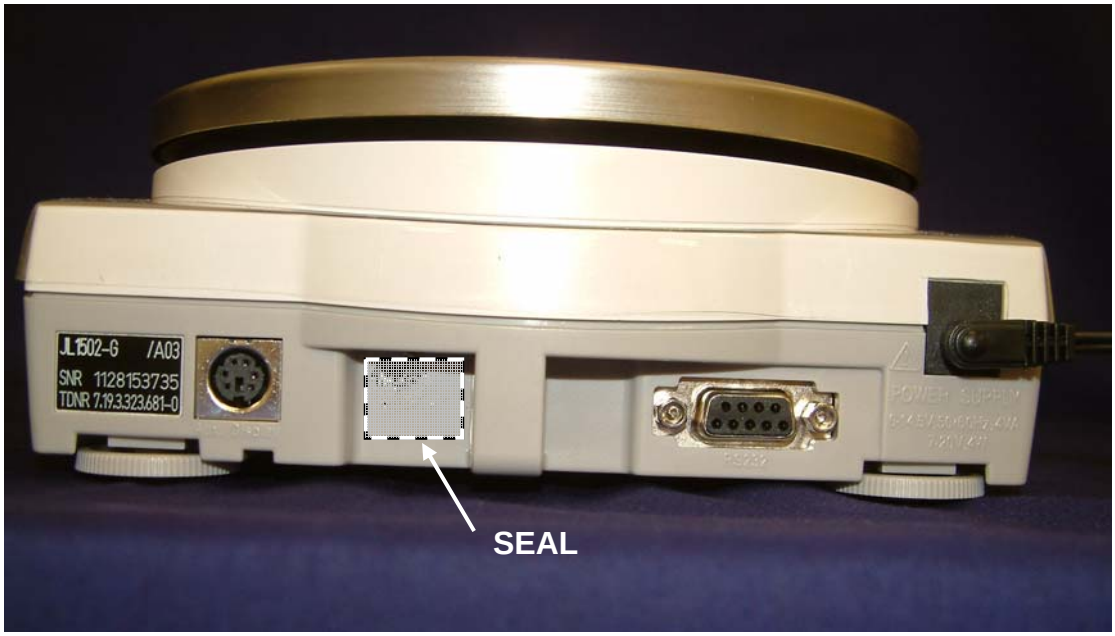
Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 12 of the *National Measurement Regulations 1999*.

FIGURE 6/4C/253 – 1

A Mettler Toledo Model JL1502-G Weighing Instrument

FIGURE 6/4C/253 – 2



Sealing Arrangement

FIGURE 6/4C/253 – 3

Typical JL/PL Series Weighing Instrument With a Windshield