Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/18/39

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 KLA-STA-300 Overhead-track Weighing Instrument

submitted by Mettler Toledo Limited
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 October 2015.

This approval becomes subject to review on 1/08/24, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	25/07/19
1	Pattern (software version) amended – certificate issued	29/08/19

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/18/39' 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 S1/0B.

The pattern as approved herein or with substitute indicators shall comply with NMI General Certificate No 6B/0.

Note: New instruments manufactured under this approval shall only use indicators with current Supplementary Certificates of Approval.

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

Darryl Hines
Manager
Policy and Regulatory
Services

TECHNICAL SCHEDULE No 6/18/39

1. Description of Pattern

approved on 25/07/19
amended on 29/08/19

A Mettler Toledo model KLA-STA-300 class (II) single interval self-indicating non-automatic overhead-track weighing instrument (Figure 1a) of 300 kg maximum capacity with a verification scale interval of 0.1 kg. The minimum capacity is 2 kg.

1.1 Trackwork

The Mettler Toledo model KLA-STA-300 (Figure 1a) consists of an overhead-track load receptor which has a 'live' section of rail (the weigh-rail) up to 400 mm long supported by two load cells.

The instrument may also incorporate mechanical mechanisms to assist in loading and removing the load. However this approval does not include the use of the instrument as an automatic weighing instrument, an operator is required to supervise the weighing operation (hence the instrument is considered to be a non-automatic weighing instrument).

Note: Satisfactory performance may be dependent on aspects of the lead-in and lead-out rails which support the instrument. Suitable installation conditions must be chosen to ensure satisfactory performance.

1.2 Load Cells

Two Mettler Toledo model MTB-500 C3 load cells of 500 kg maximum capacity are used and mounted as shown in Figure 1b.

Note that only this make, model and capacity of load cell shall be used. The load cell carries a label with the make, model, capacity and serial number.

For the purposes of calculations required by NMI General Certificate of Approval No 6B/0, if an alternative indicator is used, the following parameters may be used for the Mettler Toledo model MTB-500 500 kg load cell.

Maximum capacity	500 kg
Accuracy Class	C
Maximum number of verification intervals	3000
Minimum value of verification scale interval	0.042 kg
Minimum dead load output return value (DR)	0.083 kg
Output rating (nominal)	2 mV/V
Input impedance (nominal)	387 ohm
Supply voltage (AC or DC)	5-15 V
Number of leads (plus shield)	6
Cable length	3 m (#)

(#) The cable length must not be altered after manufacture.

1.3 Indicator

A Mettler Toledo model IND570 digital indicator (Figure 2) is used.

The instrument operates from 100-240 V mains AC power.

1.4 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.

A zero-tracking device may be fitted.

1.5 Tare

A semi-automatic subtractive tare device of up to the maximum capacity of the instrument may be fitted.

A pre-set subtractive tare device of up to the maximum capacity of the instrument may be fitted.

1.6 Display Check

A display check is initiated whenever power is applied.

1.7 Verification Provision

Provision is made for a verification mark to be applied.

1.8 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificate No S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

Instruments may be fitted with one RS232/RS422/RS485 serial data interface, Ethernet, USB interface, DeviceNet, ControlNet, Profinet, Profibus, Modbus, CC-Link, analogue outputs and digital inputs/outputs module Bluetooth and WiFi.

1.9 Sealing Provision

The instrument is sealed by preventing access to the security switch. This may be achieved by using a ‘lead and wire’ type seal as shown Figure 3 or by the use of one or more destructible adhesive labels.

1.10 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer’s mark, or name written in full	Mettler Toledo	
Accuracy class	(III)	
Maximum capacity	*Max* …. kg	#1
Minimum capacity	*Min* ….. kg	#1
Verification scale interval	*e* =…… kg	#1
Maximum subtractive tare	*T* = - … kg	#2
Serial number of the instrument	……..	
Pattern approval number for the instrument	NMI 6/18/39	
Pattern approval number for the indicator	NMI S...	

#1 These markings are shown near the display.

#2 This marking is required if *T* is not equal to *Max*.

1.11 Software

The software version is designated 2.00.xxxx, where 'xxxx' refers to the identification of non-legally relevant software.

The instructions for accessing the legally relevant version are as follows (starting from the normal weighing mode):

- Press the RECALL softkey 
- Press the METROLOGY RECALL softkey 
- The legally relevant version is displayed**.**

TEST PROCEDURE No 6/18/39

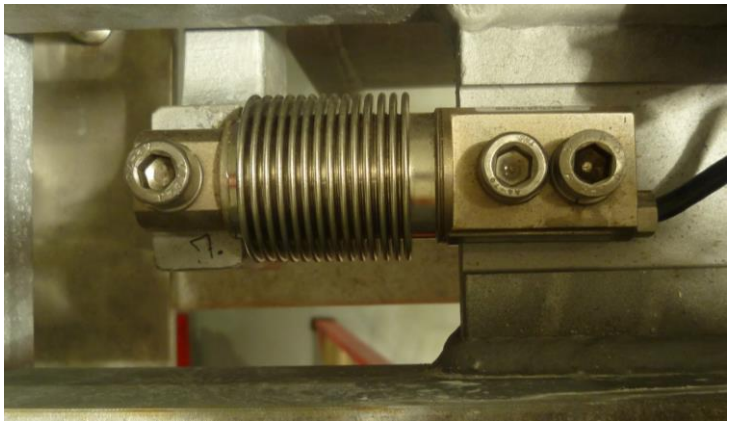
Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

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

FIGURE 6/18/39 – 1

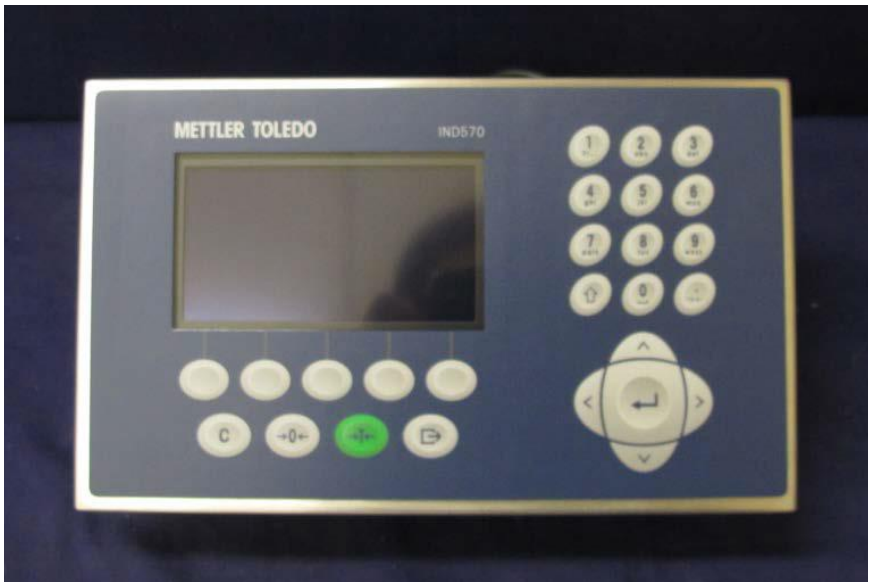
(a) Model KLA-STA-300 Trackwork



(b) Load cell Mounting Arrangement

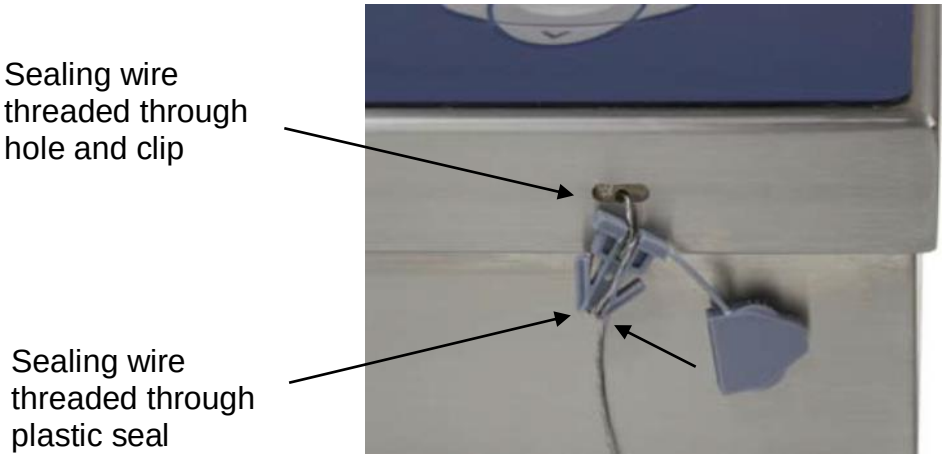
Mettler Toledo Model KLA-STA-300 Overhead-track Weighing Instrument (Pattern)

FIGURE 6/18/39 – 2



Mettler Toledo Model IND570 Digital Indicator

FIGURE 6/18/39 – 3



Typical Sealing Methods (alternatively by the use of one or more destructible adhesive labels)

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