Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4D/406

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.

Teraoka Model LX-5600 Weighing Instrument

submitted by W W Wedderburn Pty. Limited
101 Williamson Road
Ingleburn NSW 2565

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 is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 2 approved – certificate issued	19/06/25

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4D/406' and only by persons authorised by the submittor.

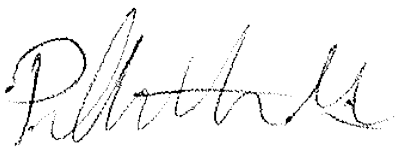
It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this 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 Certificate No S1/0B.

Special

Certain aspects of this instrument (in particular label formats) are able to be configured by the user. Whilst NMI believes that acceptable label formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation event that such modifications (if any are required by NMI) are not made to the satisfaction of NMI, this approval may be withdrawn.

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



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4D/406

1. Description of Pattern approved on 19/06/25

A Teraoka model LX-5600 class (III) self-indicating multi-interval price computing weigh/wrap/seal/labelling weighing instrument (Figure 1 and Table 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, and with a minimum capacity of 0.04 kg.

The instrument is fitted with a keyboard and LCD touchscreen display mounted above the load receptor at the front of the instrument. The display is used for the presentation of tare, weight, unit price and price information, zero, net indications and functions relating to product look up (PLU) items.

Instruments may be fitted with either single or twin label printers mounted upon the frame for labelling after a package has been sealed.

Instruments have unit price to $9999.99/kg, price to $9999.99, and a product look up (PLU) facility.

The instrument has the ability to calculate price totals and then print labels for weighed loads and non-weigh items.

The instrument operates from mains AC power (220-240 V AC, 50/60 Hz).

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devise (see clause 1.5 below)

This approval does not include the use of the instrument as an automatic weighing instrument.

1.1 Zero

A zero-tracking device may be fitted.

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 subtractive tare device and/or non-automatic keyboard-entered pre-set subtractive tare device, each of up to 5.998 kg maximum tare capacity, may be fitted.

Pre-set tare values may be associated with product look up (PLU) items.

1.3 Display Check

The instrument has a colour LCD display. The display check is not required.

1.4 Levelling

Where instruments are not installed in a permanently fixed location they are provided with adjustable feet and a level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

1.5 Interfaces

The indicator 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 R 76 (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 of Approval 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 USB and Ethernet.

1.6 Verification Provision

Provision is made for the application of a verification mark.

1.7 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Teraoka
Name or mark of manufacturer's agent	WEDDERBURN
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4D/406
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	……..

These markings are shown near the display of the result.

Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording).

1.8 Software

The measurement software is designated 04.xx and the A/D board software version is designated 03.xx, where 'xx' refers to the identification of non-legally relevant software.

The A/D board software version and number can be seen in the switch-on display sequence (when the power is first applied to the instrument).

The instructions for accessing the software versions are as follows (starting from the normal weighing mode):

- Press the  button on the screen and the MAIN MENU screen is displayed.
- Press the  button and then the 'SETUP' button.
- Press the 'SOFTWARE VERSION' button. The software version numbers are displayed.

1.9 Sealing Provision

A calibration switch is located on the A/D board which is located on the right side of the equipment body below the load receptor. Provision is made for the calibration adjustments to be sealed by placing a folded metal cover over the A/D board and fixing it with two securing screws, and destructible labels placed over the opposite sides of the metal cover and inspection cover plate (Figure 2).

The calibration protection can be verified by pressing the 'Operation Mode' button in the 'Main Menu'. If the 'Scale Confirmation – Turn off span switch' message screen pops up, then the instrument is in calibration mode. Otherwise the instrument's calibration switch is off and the instrument calibration is protected (Figure 3).

2. Description of Variant 1 **approved on 19/06/25**

The Teraoka model LX-5600 series instruments fitted with an N type load cell of certain other multi-interval capacities as listed in Table 1 below (the pattern is shown in **bold**).

TABLE 1

Maximum Capacity (Max_1 / Max_2)	Minimum Capacity (Min)	Verification Scale Interval (e_1 / e_2)	Maximum Subtractive Tare Capacity (T = - …)
3 / 6 kg	0.02 kg	1 / 2 g	2.999 kg
6 / 15 kg	**0.04 kg**	**2 / 5 g**	**5.998 kg**

3. Description of Variant 2 **approved on 19/06/25**

The Teraoka model LX-5600 series single interval instruments fitted with an N type load cell of certain capacities as listed in Table 2.

TABLE 2

Maximum Capacity (Max)	Minimum Capacity (Min)	Verification Scale Interval (e)	Maximum Subtractive Tare Capacity (T = - …)
6 kg	0.04 kg	2 g	6 kg
15 kg	0.1 kg	5 g	15 kg

TEST PROCEDURE No 6/4D/406

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

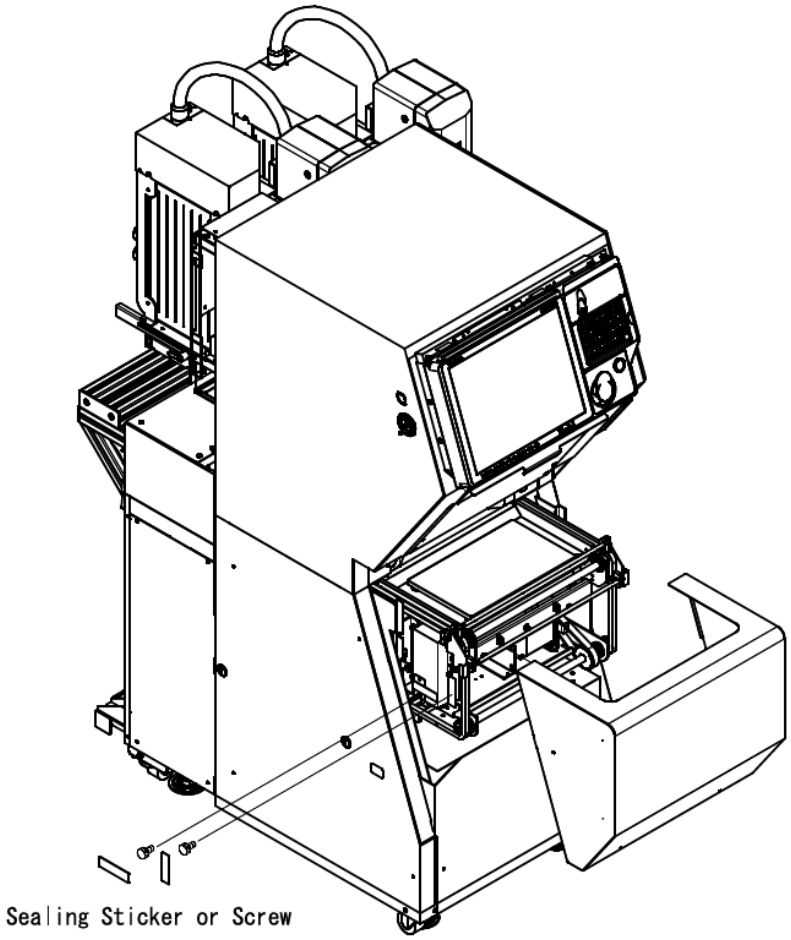
The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009*.

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

FIGURE 6/4D/406 – 1

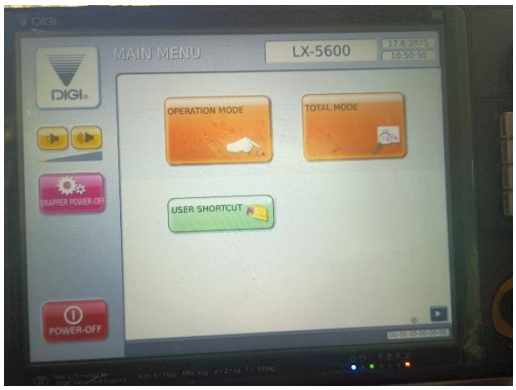
Teraoka Model LX-5600 Weighing Instrument (Pattern)

FIGURE 6/4D/406 – 2

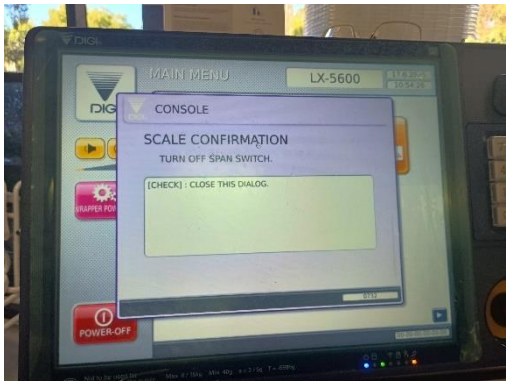


Typical Sealing Method (Pattern)

FIGURE 6/4D/406 – 3



In the Main Menu, press "Operation Mode"



If the TURN OFF SPAN SWITCH message is displayed, then the instrument calibration is not protected.

Display Indication For Calibration Switch Setting (Pattern)

~ End of Document ~