



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval NMI 6/4D/386

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.

Nuweigh Model J-2102 Weighing Instrument

submitted by Newcastle Weighing Services
104-114 Hannell Street
Wickham NSW 2293

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 1/12/21, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 3 approved – certificate issued	10/11/16
1	Pattern & variants 1 to 2 corrected and amended – certificate issued	8/11/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4D/386' and only by persons authorised by the submitter.

It is the submitter'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 transaction record printing formats) are able to be configured by the user. Whilst NMI believes that acceptable 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.

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



Darryl Hines

TECHNICAL SCHEDULE No 6/4D/386

1. Description of Pattern

**approved on 10/11/16
amended on 8/11/17**

A Nuweigh model J-2102 class **III** self-indicating price-computing multi-interval non-automatic weighing instrument 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 are fitted with an integral operator display and an integral customer display or a pole mount customer display (Figure 1).

Instruments have unit price to \$9999.99/kg, price to \$9999.99, a PLU facility, and may be fitted with output sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices.

The platter size of the instrument is 263 mm × 204 mm.

The instrument operates from AC power adaptor (model YS01-120050A, 12V_{dc}/500mA), or battery (6V_{dc}/4Ah).

Note: The submitter should be consulted regarding the acceptability of alternative power supply units.

The software version of the pattern (model J-2102) is 1.54.

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 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 General Supplementary Certificate No S1/0B (in particular in regard to the data and its format).

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 of up to 14.995 kg capacity may be fitted.

1.3 Levelling

The instrument is provided with adjustable feet and a levelling indication device.

The instrument is to be used in a level condition as indicated by the levelling indication device.

1.4 Display Check

A display check is initiated whenever power is applied.

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 push button' and one of the enclosure screw (as shown in Figure 2) to be sealed with destructible adhesive labels.

1.7 Descriptive Markings

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	Newcastle Weighing Services
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI 6/4D/386
Maximum capacity	Max/..... g or kg #1
Minimum capacity	Min g or kg #1
Verification scale interval	e =/..... g or kg #1
Maximum subtractive tare	T = - g or kg #2
Serial number of the instrument

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

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

Note: For single interval instruments, there is only one range therefore only one value of maximum capacity and verification scale interval to be marked.

2. Description of Variant 1

approved on 10/11/16
amended on 8/11/17

The pattern (model J2102) with various capacities having the parameters as listed in the Table 1 below. The metrological characteristics in **bold** type are for the pattern.

TABLE 1

	Model J2102						
Max. capacity (kg)	3/6	6/15	15/30	3	6	15	30
Min. capacity (g)	20	40	100	20	40	100	200
Verification interval, e (g)	1/2	2/5	5/10	1	2	5	10
Tare ≤ (kg)	5.998	14.995	29.99	2.999	5.998	14.995	29.99
E _{max} (kg), Zemic L6D C3 load cell	10	20	40/50	5	10	20	40/50

3. Description of Variant 2

**approved on 10/11/16
amended on 8/11/17**

The Nuweigh model J-1105 (Figure 3) with various capacities having parameters as listed in Table 1 above. This model has similar parameters in its weighing function as the pattern and with the addition of counting and preset functions. The software version of the model J-1105 is 1.11. Note that the counting function is not approved for trade use.

Note: The model J-1105 is not approved for direct trade to the public, and is marked "Not to be used for direct trade to public" or similar wording.

4. Description of Variant 3

approved on 10/11/16

The Nuweigh model J-9600 (Figure 4) with various capacities having the parameters as listed in Table 1 above. This model has similar parameters in its weighing function as the pattern. The differences are as follows.

- a) Having weighing function only (Figure 4a).
- b) Having a simplified counting function (Figure 4b). Note: this function is not approved for trade use.
- c) Having non-automatic check weighing function (Figure 4c). Note: this function is not approved for trade use.
- d) The software version of the model J-9600 is 1.11.

Note: The model J-9600 is not approved for direct trade to the public, and is marked "Not to be used for direct trade to public" or similar wording.

TEST PROCEDURE

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.

FIGURE 6/4D/386 – 1

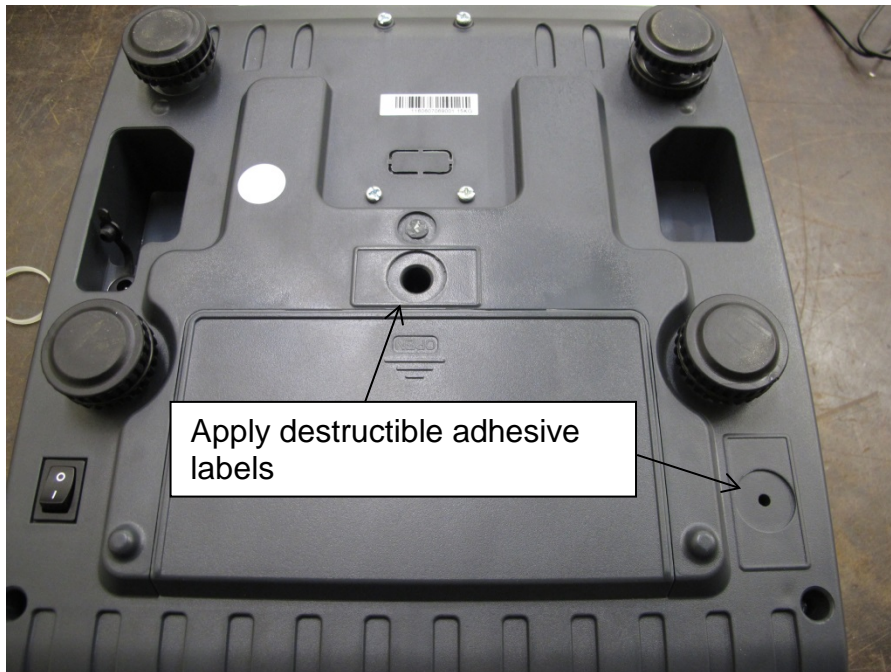


Nuweigh Model J-2102 Weighing Instrument (Pattern)



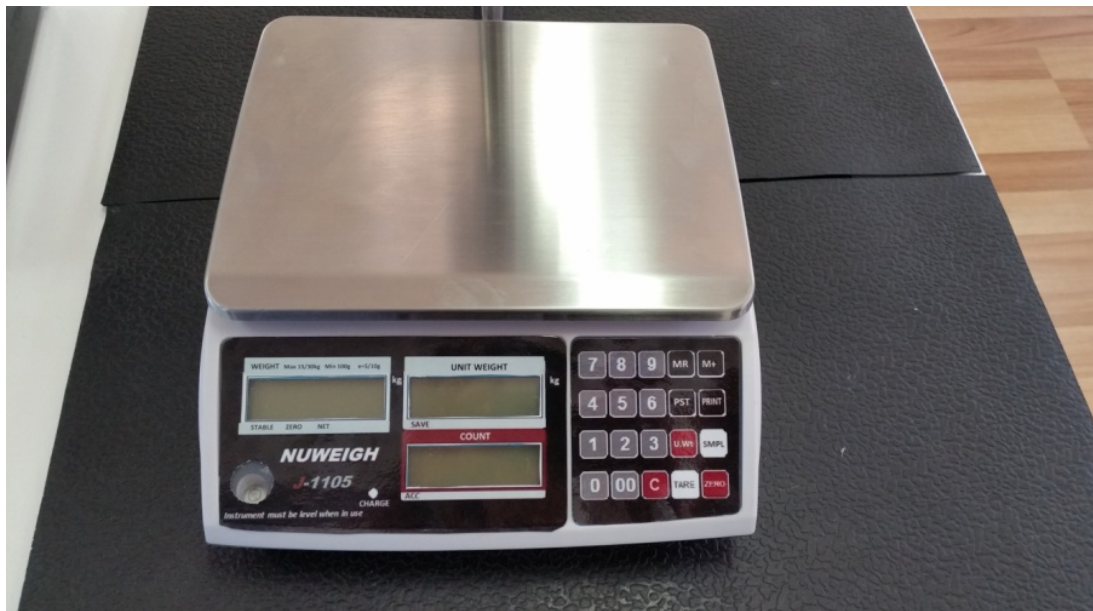
Model J-2102 With Pole Mount Display (Pattern)

FIGURE 6/4D/386 – 2



Typical Sealing Using Destructible Adhesive Labels for Pattern and Variants

FIGURE 6/4D/386 – 3



Model J1105 With Counting Function (Variant 2)

FIGURE 6/4D/386 – 4



(a) Model J9600 With Weigh Only Keypad (Variant 3)



(b) Model J9600 with Counting Function Keypad (Variant 3)



(c) Model J9600 With Checkweigher Keypad (Variant 3)

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