



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4C/270

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 JAD 575 Weighing Instrument

submitted by Newcastle Weighing Services Pty Ltd
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 July 2004.

This approval becomes subject to review on 1/10/16, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2 approved – certificate issued	22/09/11

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4C/270' 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 Certificates No S1/0/A or No S1/0B.

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

A handwritten signature in black ink that reads "C Davies". The signature is written in a cursive style with a large, looped initial "C".

TECHNICAL SCHEDULE No 6/4C/270

1. Description of Pattern

approved on 22/09/11

A Nuweigh model JAD 575 class III non-automatic self-indicating multi-interval 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 are fitted with two liquid crystal displays (LCD), one large integrated operator display and a small integrated customer display.

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

Instruments are fitted with a ZEMIC model L6D C3 load cell of 20 kg maximum capacity.

Power may be supplied by:

- an AC/DC mains adaptor (DC 9 V to 12 V); and/or
- an internal 6 V rechargeable battery.

Note: The AC/DC mains adaptor supplied for the instrument was a Shenzhen Yunsheng Electronics model LK-D090080 (9 V DC, 800 mA) – the submitter should be consulted regarding the acceptability of alternative power supply units.

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 may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

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 or similar wording.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Provision is made for sealing of the instrument by preventing access to the calibration switch underneath the instrument (inside the battery compartment) by use of a round disc (cover) beneath a destructible adhesive label as shown in Figure 2a.

In addition, sealing of access within the housing is achieved by use of wire passing through two sealing screws as shown in Figure 2b or by use of destructible adhesive labels across the join in the instrument housing on two sides of instrument as shown in Figure 2c.

1.7 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Nuweigh
Name or mark of manufacturer's agent	Newcastle Weighing Services Pty Ltd
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NMI 6/4C/270
Maximum capacity	<i>Max</i> g or kg #1
Minimum capacity	<i>Min</i> g or kg #1
Verification scale interval	<i>e</i> = g or kg #1
Maximum subtractive tare	<i>T</i> = - g or kg #2
Serial number of the instrument

#1 These markings are also 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 multi-interval instruments the markings shall be as above, with the exception that the 'Maximum capacity' and 'Verification scale interval' shall be marked for both interval ranges, e.g. as follows:

Maximum capacity	<i>Max</i>/..... g or kg
Verification scale interval	<i>e</i> =/..... g or kg

2. Description of Variant 1

approved on 22/09/11

The Nuweigh model JAD 575 multi-interval instruments in certain other capacities as shown in Table 1 below (the pattern is shown in **bold**).

TABLE 1

Maximum Capacity (<i>Max</i> ₁ / <i>Max</i> ₂)	Verification Scale Interval (<i>e</i> ₁ / <i>e</i> ₂)	Maximum Subtractive Tare Capacity (<i>T</i> = - ...)	Load Cell Capacity <i>E</i> _{max}
3/6 kg	0.001/0.002 kg	5.998	8 kg or 10 kg
6/15 kg	0.002/0.005 kg	14.995	20 kg
15/30 kg	0.005/0.01 kg	29.99	35 kg or 50 kg

3. Description of Variant 2

approved on 22/09/11

The Nuweigh model JAD 575 single interval instruments in certain capacities as shown in Table 2 below:

TABLE 2

Maximum Capacity (<i>Max</i>)	Verification Scale Interval (<i>e</i>)	Maximum Subtractive Tare Capacity (<i>T = - ...</i>)	Load Cell Maximum Capacity <i>E</i> _{max}
3 kg	0.001 kg	2.999 kg	5 kg
6 kg	0.002 kg	5.998 kg	8 kg or 10 kg
15 kg	0.005 kg	14.995 kg	20 kg
30 kg	0.01 kg	29.99 kg	35 kg or 50 kg

TEST PROCEDURE No 6/4C/270

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*.

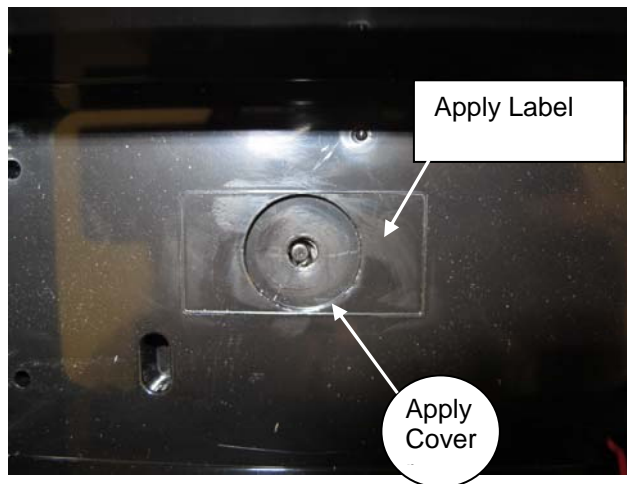
For multi-interval and multiple range instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

FIGURE 6/4C/270 – 1

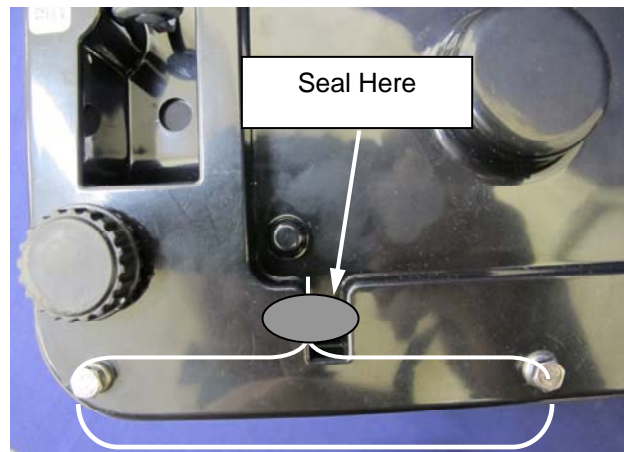


Nuweigh Model JAD 575 Weighing Instrument

FIGURE 6/4C/270 – 2



(a) A cover and a destructible adhesive label seal (inside battery compartment)



(b) A lead-wire seal



(c) A destructible adhesive label seal

Nuweigh Model JAD 575 – Typical Sealing Arrangements