



Australian Government  
Department of Industry,  
Science and Resources

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

## Certificate of Approval

### NMI 6/4C/293

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.

Wedderburn Model WS211 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 July 2004.

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 3 approved – certificate issued	11/03/15
1	Pattern amended ('Digi' removed from model number) and review date removed – certificate issued	16/01/24

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/293' 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**  
Manager  
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4C/293

**1. Description of Pattern**

**approved on 11/03/15  
amended on 16/01/24**

A Wedderburn model WS211 class  dual range self-indicating non-automatic weighing instrument (Figure 1 and Table 1) with a verification scale interval of 0.002 kg up to 6 kg and a verification scale interval of 0.005 kg from greater than 6 kg up to 15 kg.

The instrument has an ABS plastic enclosure with an LED display for display of the weight value.

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

The instrument may be fitted with output sockets (output interfacing capability) for the connection of peripheral and/or auxiliary devices. The connection of peripheral and/or auxiliary devices shall not be able to change the instrument set up and measurement data.

The instrument has a 'Unit Change Key' which shall be disabled and the measurement unit shall be set as 'kg' or 'g'.

Power for the Wedderburn model WS211 instrument may be supplied by:

- an AC/DC mains adaptor; and/or
- an internal 6v rechargeable battery.

Note: The AC/DC mains adaptor supplied for the instrument was a Shenzhen model SW-120080 (12 V DC, 0.8 A) adaptor – the submitter should be consulted regarding the acceptability of alternative power supply units.

The instrument may be fitted with a ticket printer. The ticket format shall comply with NMI R76-1 and NMI S1/0B requirements.

**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 maximum capacity may be fitted.

**1.3 Levelling**

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice stating 'Instrument must be level when in use' or similar wording.

**1.4 Display Check**

A display check is initiated whenever power is applied.

**1.5 Additional Features**

Instruments may be fitted with accumulative weighing, piece counting and check weighing functions. These functions and displays are not approved for trade use.

## 1.6 Verification Provision


Provision is made for the application of a verification mark.

## 1.7 Sealing Provision

Access to the calibration switch is underneath the instrument, inside the battery box. Provision is made for access to the calibration switch to be sealed by applying a destructible adhesive label seal over the access hole. Also a suitable destructible adhesive label seal is to be placed to prevent access through the housing, shown in Figure 2.

## 1.8 Descriptive Markings and Notices

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	WEDDERBURN
Indication of accuracy class	
Pattern approval number for the instrument	NMI 6/4C/293
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	.....

For single interval instruments (see variants) there is only one range therefore only one value of maximum capacity and verification scale interval need to be marked.

#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*.

In addition, instruments shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

## 2. Description of Variant 1

approved on 11/03/15

The pattern or variants as dual-range instruments of certain other capacities as listed in Table 1 below (the pattern is shown in bold).

TABLE 1 – Dual-Range Instrument Capacities

Maximum Capacity (Range 1/Range 2)	Verification Scale Interval (Range 1/Range 2)	Resolution (Per Range)	Load Cell Capacity
1.5 kg / 3 kg	0.5 g / 1 g	3000	5 kg
3 kg / 6 kg	1 g / 2 g	3000	10 kg
<b>6 kg / 15 kg</b>	<b>2 g / 5 g</b>	<b>3000</b>	<b>20 kg</b>
15 kg / 30 kg	5 / 10 g	3000	50 kg

**3. Description of Variant 2** **approved on 11/03/15**

The pattern or variants as single range instruments (single interval) of certain capacities as listed in Table 2 below:

A semi-automatic subtractive tare device and/or a keyboard-entered pre-set subtractive tare device, each of up to the maximum tare capacity shown in the Table, may be fitted.

TABLE 2 – Single Range Instrument Capacities

Maximum Capacity	Verification Scale Interval	Resolution	Load Cell Capacity
3 kg	1 g	3000	5 kg
6 kg	2 g	3000	10 kg
15 kg	5 g	3000	20 kg
30 kg	10 g	3000	50 kg

**4. Description of Variant 3** **approved on 11/03/15**

The pattern and variants 1 and 2 mounted in a stainless steel housing (Figure 3) and known as the model WS211SS.

TEST PROCEDURE 6/4C/293

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 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/293 – 1



Wedderburn Model WS211 Weighing Instrument (Pattern)

FIGURE 6/4C/293 – 2



Typical Mechanical Sealing

FIGURE 6/4C/293 – 3



Wedderburn Model WS211SS Weighing Instrument (Variant 3)

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