



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

No S539

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

Nuweigh Model JAC7000-15B Load Cell

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 60, *Metrological Regulation for Load Cells*, dated July 2004.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 2016, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S539' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S539' in addition to the approval number of the instrument.

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.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

DESCRIPTIVE ADVICE

Pattern: approved 16 March 2011

- A Nuweigh model JAC7000-15B load cell of 22 680 kg maximum capacity.

Variant: approved 16 March 2011

1. Certain other models and with characteristics as listed in Table 1.

Technical Schedule No S539 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S539 dated 17 March 2011

Technical Schedule No S539 dated 17 March 2011 (incl. Table 1)

Figure 1 dated 17 March 2011

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, consisting of stylized, cursive letters, positioned above a horizontal line.

TECHNICAL SCHEDULE No S539

Pattern: Nuweigh Model JAC7000-15B Load Cell

Submittor: Newcastle Weighing Services Pty Ltd
104-114 Hannell Street
Wickham NSW 2293

1. Description of Pattern

A Nuweigh model JAC7000-15B load cell of 22 680 kg maximum capacity (Figure 1 and Table 1).

Load cells are fitted with an anti-rotation pin.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 1.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Nuweigh
Model number
Maximum capacity kg (or t)
Serial number
Pattern approval mark	NMI No S539

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1

Certain other model load cells of the JAC7000 series with characteristics as shown in Table 1.

TABLE 1

Nuweigh JAC7000-xxB load cells as listed below, where xx in the model number represents the cable length in metres, e.g. the pattern model JAC7000-15B (is of 22 680 kg capacity) with a 15 m long cable.

Model Number: JAC7000-xxB

<i>E</i> _{max} (kg)	22 680	45 360	54 430
Class	C3	C3	C3
nLC	3000	3000	3000
<i>V</i> _{min} (kg)	2.27	4.54	5.44
DR (kg)	3.78	7.56	9.07
mV/V	2	2	2
Input imp. (Ω)	1150	1150	1150
Voltage (V)	15	15	15
Cable length (m)	xx metres, according to –xxB in model number		
Number of leads (plus shield)	4	4	4

where:

<i>E</i> _{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
<i>V</i> _{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (DC)

FIGURE S539 – 1



Nuweigh Model JAC7000-15B Load Cell
Including Mounting Fittings