Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval
No S612

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 JAC8000 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.

This approval becomes subject to review on 1/04/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	14/03/13
1	Variant 2 approved – certificate issued	24/03/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S612' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S612' in addition to the approval number of the instrument, 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.

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.

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

Mario Zamora

TECHNICAL SCHEDULE No S612

1. Description of Pattern approved on 14/03/13

A Nuweigh model JAC8000 load cell of 30 000 kg maximum capacity (Figure 1 and Table 1).

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 2.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Nuweigh
Model number	JAC8000
Maximum capacity, E_{max}	…….. kg
Serial number	……..
Pattern approval mark	NMI S612

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 14/03/13

Certain other capacities and characteristics of the Nuweigh JAC8000 series as listed in Table 1.

TABLE 1

Model Number	JAC8000					
E_{max} (kg)	11 000	20 000	25 000	30 000	35 000	50 000
Class	C	C	C	C	C	C
nLC	3000	3000	3000	3000	3000	3000
V_{min} (kg)	1.467	2.667	3.333	4	4.667	6.667
DR (kg)	1.833	3.333	4.167	5	5.833	8.333
mV/V	3					
Input imp (Ω)	700					
Voltage (V)	15					
Cable length (m)	18					
Number of leads (plus shield)	4					

Where:

E_{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
V_{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 (AC/DC)

3. Description of Variant 2 approved on 24/03/16

Certain capacities and characteristics of the Nuweigh JAC8000 S/S (stainless steel) load cell series (Figure 3) as listed in Table 2.

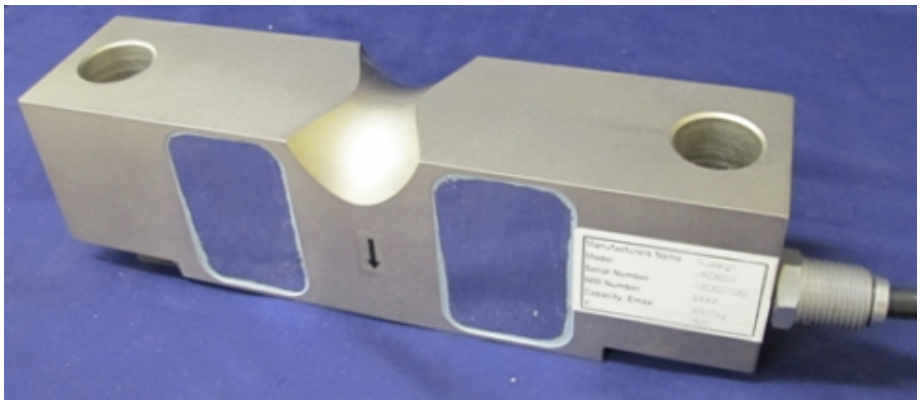
TABLE 2

Model Number	JAC8000 S/S					
E_{max} (kg)	11 000	20 000	25 000	30 000	35 000	50 000
Class	C	C	C	C	C	C
nLC	3000	3000	3000	3000	3000	3000
V_{min} (kg)	0.733	1.333	1.667	2	2.333	3.333
DR (kg)	1.1	2	2.5	3	3.5	5
mV/V	3.0					
Input imp (Ω)	750					
Voltage (V)	12					
Cable length (m)	18					
Number of leads (plus shield)	4					

Where:

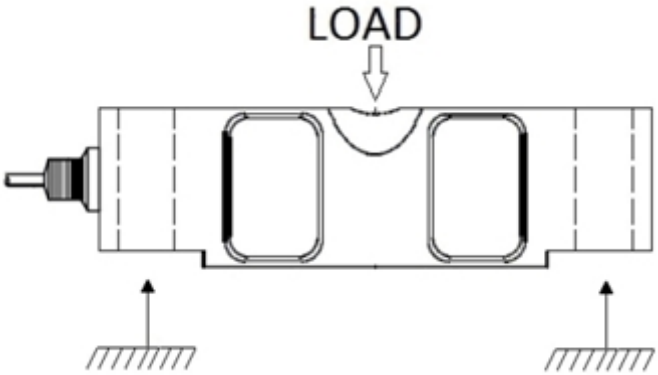
E_{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S612 – 1



Nuweigh JAC8000 Series Load Cell (Pattern & Variant 1)

FIGURE S612 – 2



Typical Mounting Method (Pattern & Variants)

FIGURE S612 – 3

Nuweigh JAC8000 S/S Series Load Cell (Variant 2)

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