



Australian Government  
Department of Industry,  
Innovation and Science

**National  
Measurement  
Institute**

**Supplementary Certificate of Approval**

**NMI S741**

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.

Weigh-More Solutions Model WMS-D30t Digital Load Cell

submitted by        AWS (Aussie Weighbridge Systems) Pty Ltd  
                              T/A Weigh-More Solutions  
                              Unit 9/160 Hartley Road  
                              Smeaton Grange    NSW 2567

**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 1/10/22, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	13/09/17

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S741' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S741' 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*.



**Darryl Hines**

TECHNICAL SCHEDULE No S741

**1. Description of Pattern** **approved on 13/09/17**

A Weigh-More Solutions model WMS-D30t stainless steel compression digital load cell of 30 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 4000 verification scale intervals.

**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	Weigh-More Solutions
Model number	
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI S741

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

**2. Description of Variant 1** **approved on 13/09/17**

Certain other capacities and characteristics of the Weigh-More Solutions WMS series as listed in Table 1.

TABLE 1

Model:	WMS-D30t	WMS-D40t
Maximum capacity, $E_{max}$ (kg)	30 000	40 000
Accuracy class	C	C
Maximum number of verification intervals, nLC	4 000	4 000
Minimum value of verification interval, $V_{min}$ , (kg)	2	2.7
Minimum dead load output return value, DR (kg)	1.9	2.5
Output rating (resolution) counts at $E_{max}$	100 000	100 000
Supply voltage (DC), V	7.5 - 16	
Cable length ( $\pm 0.1$ m), m	up to 1000 m (*)	
Communication	CAN bus/2-wire or RS485/2-wire	
Digital indicator	NMI-approved for use with compatible Weigh-More Solutions digital load cells	
Apportionment factor, PLC	0.8	
Software version number	1	

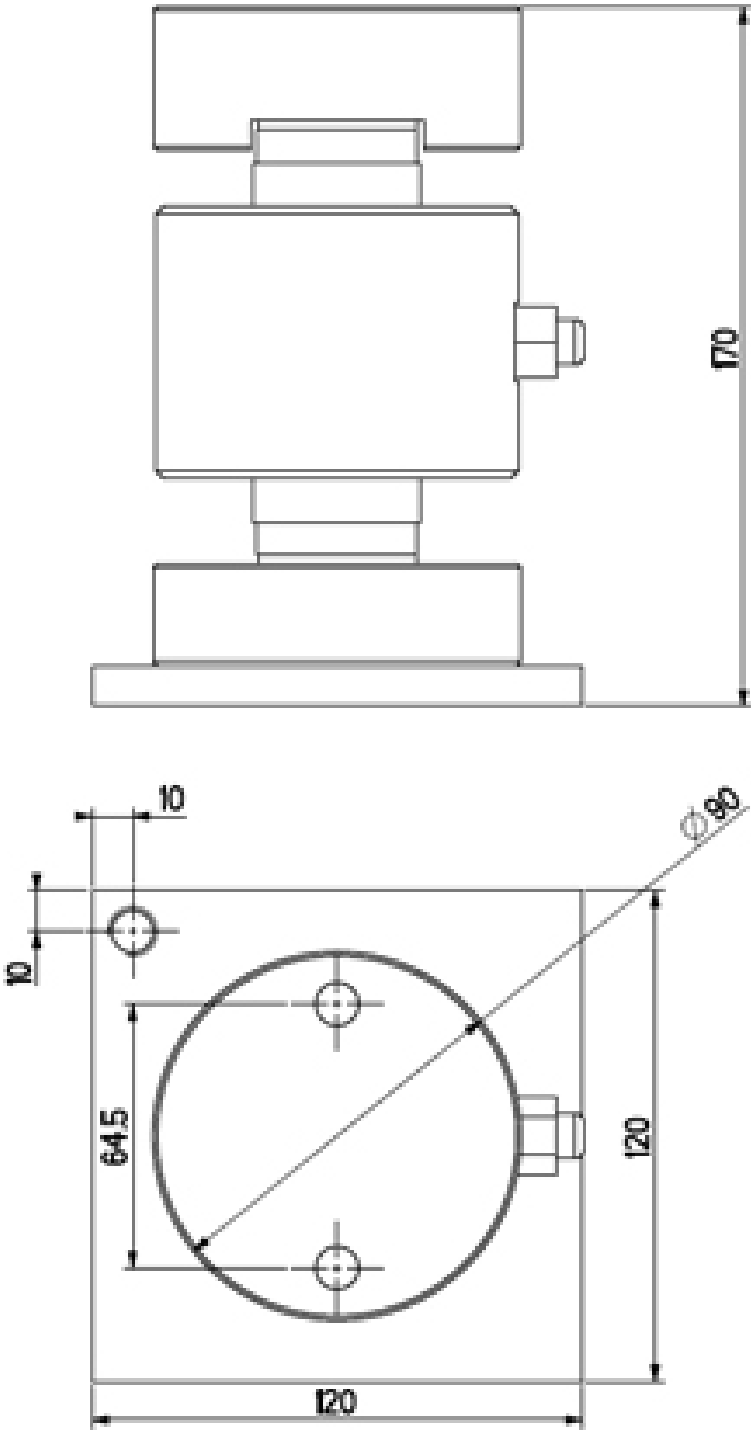
(\*) The load cells are connected to the junction/indicator. These cables may be up to 1000 metres in length.

FIGURE S741 – 1



Weigh-More Solutions Model WMS Load Cell

FIGURE S741 – 2



Typical Mounting Arrangement

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