



Australian Government
Department of Industry, Science,
Energy and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval
NMI S795

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.

Anyload Model 651HS Load Cell

submitted by Associated Scale Services Pty Ltd
Unit 4, 47 Learoyd Road
Acacia Ridge QLD 4110

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 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 7 approved – certificate issued	12/11/21

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S795' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S795' in addition to the approval number of the instrument, 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.

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
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S795

1. Description of Pattern **approved on 12/11/21**

An Anyload model 651HS single point stainless steel load cell of 50 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 8.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	ANYLOAD
Model number	-#
Maximum capacity, E_{max}	 kg
Serial number	
Pattern approval number	NMI No S795
# Load cell cable length other than the nominal value in metres.	

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 12/11/21**

Certain other capacities and characteristics of the Anyload 651HS series as listed in Table 1.

TABLE 1

Model Number	651HS			
E_{max} (kg)	12	20	30	50
Class	C	C	C	C
nLC	9000	9000	9000	9000
V_{min} (kg)	0.0007	0.0011	0.0017	0.0028
DR (kg)	0.0007	0.0011	0.0017	0.0028
mV/V	2			
Input imp (Ω)	400			
Voltage (V)	15			
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 6 metres appending to the model number, and so marked on the data plate (**).			
Number of leads	4 (plus shield)			

(**) The cable length shall not be altered after manufacture.

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 12/11/21

Certain capacities and characteristics of the Anyload 651JS series as listed in Table 2 and as shown in Figure 2.

TABLE 2

Model Number	651JS			
E_{max} (kg)	50	75	200	400
Class	C	C	C	C
nLC	9000	9000	4000	4000
V_{min} (kg)	0.0028	0.0042	0.0077	0.0154
DR (kg)	0.0028	0.0042	0.025	0.05
mV/V	2			
Input imp (Ω)	1100			
Voltage (V)	15			
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 2 metres appending to the model number, and so marked on the data plate (**).			
Number of leads	4 (plus shield)			

(**) The cable length shall not be altered after manufacture.

4. Description of Variant 3 approved on 12/11/21

Certain capacities and characteristics of the Anyload 651KS22 series as listed in Table 3 and as shown in Figure 3.

TABLE 3

Model Number	651KS22			
E_{max} (kg)	50	100	250	500
Class	C	C	C	C
nLC	9000	4000	4000	4000
V_{min} (kg)	0.0028	0.0038	0.0096	0.0192
DR (kg)	0.0028	0.0125	0.0313	0.0625
mV/V	2			
Input imp (Ω)	400			
Voltage (V)	15			
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 6 metres appending to the model number, and so marked on the data plate (**).			
Number of leads	4 (plus shield)			

(**) The cable length shall not be altered after manufacture.

5. Description of Variant 4**approved on 12/11/21**

Certain capacities and characteristics of the Anyload 651KS55 series as listed in Table 4 and as shown in Figure 4.

TABLE 4

Model Number	651KS55
E_{max} (kg)	100
Class	C
nLC	4000
V_{min} (kg)	0.0038
DR (kg)	0.0125
mV/V	2
Input imp (Ω)	1100
Voltage (V)	15
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 3 metres appending to the model number, and so marked on the data plate (**).
Number of leads	4 (plus shield)

(**) The cable length shall not be altered after manufacture.

6. Description of Variant 5**approved on 12/11/21**

Certain capacities and characteristics of the Anyload 651KS66 series as listed in Table 5 and as shown in Figure 5.

TABLE 5

Model Number	651KS66				
E_{max} (kg)	10	20	50	100	200
Class	C	C	C	C	C
nLC	9000	9000	9000	4000	4000
V_{min} (kg)	0.0006	0.0011	0.0028	0.0038	0.0077
DR (kg)	0.0006	0.0011	0.0028	0.0125	0.025
mV/V	2				
Input imp (Ω)	1100				
Voltage (V)	15				
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 3 metres appending to the model number, and so marked on the data plate (**).				
Number of leads	4 (plus shield)				

(**) The cable length shall not be altered after manufacture.

7. Description of Variant 6**approved on 12/11/21**

Certain capacities and characteristics of the Anyload 651KSBC series as listed in Table 6 and as shown in Figure 6.

TABLE 6

Model Number	651KSBC	
E_{max} (kg)	100	250
Class	C	C
nLC	4000	4000
V_{min} (kg)	0.0038	0.0096
DR (kg)	0.0125	0.0313
mV/V	2	
Input imp (Ω)	1100	
Voltage (V)	15	
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 3 metres appending to the model number, and so marked on the data plate (**).	
Number of leads	4 (plus shield)	

(**) The cable length shall not be altered after manufacture.

8. Description of Variant 7**approved on 12/11/21**

Certain capacities and characteristics of the Anyload 651TS series as listed in Table 8 and as shown in Figure 7.

TABLE 7

Model Number	651TS	
E_{max} (kg)	50	100
Class	C	C
nLC	9000	4000
V_{min} (kg)	0.0028	0.0038
DR (kg)	0.0028	0.0125
mV/V	2	
Input imp (Ω)	400	
Voltage (V)	15	
Cable length (m)	Manufactured in various lengths between 1 and 6 metres in 1 metre increments; the cable length other than the nominal value of 3 metres appending to the model number, and so marked on the data plate (**).	
Number of leads	4 (plus shield)	

(**) The cable length shall not be altered after manufacture.

FIGURE S795– 1



Anyload Model 651HS Series Load Cell

FIGURE S795 – 2



Anyload Model 651JS Series Load Cell

FIGURE S795 – 3



Anyload Model 651KS22 Series Load Cell

FIGURE S795 – 4



Anyload Model 651KS55 Series Load Cell

FIGURE S795 – 5



Anyload Model 651KS66 Series Load Cell

FIGURE S795 – 6



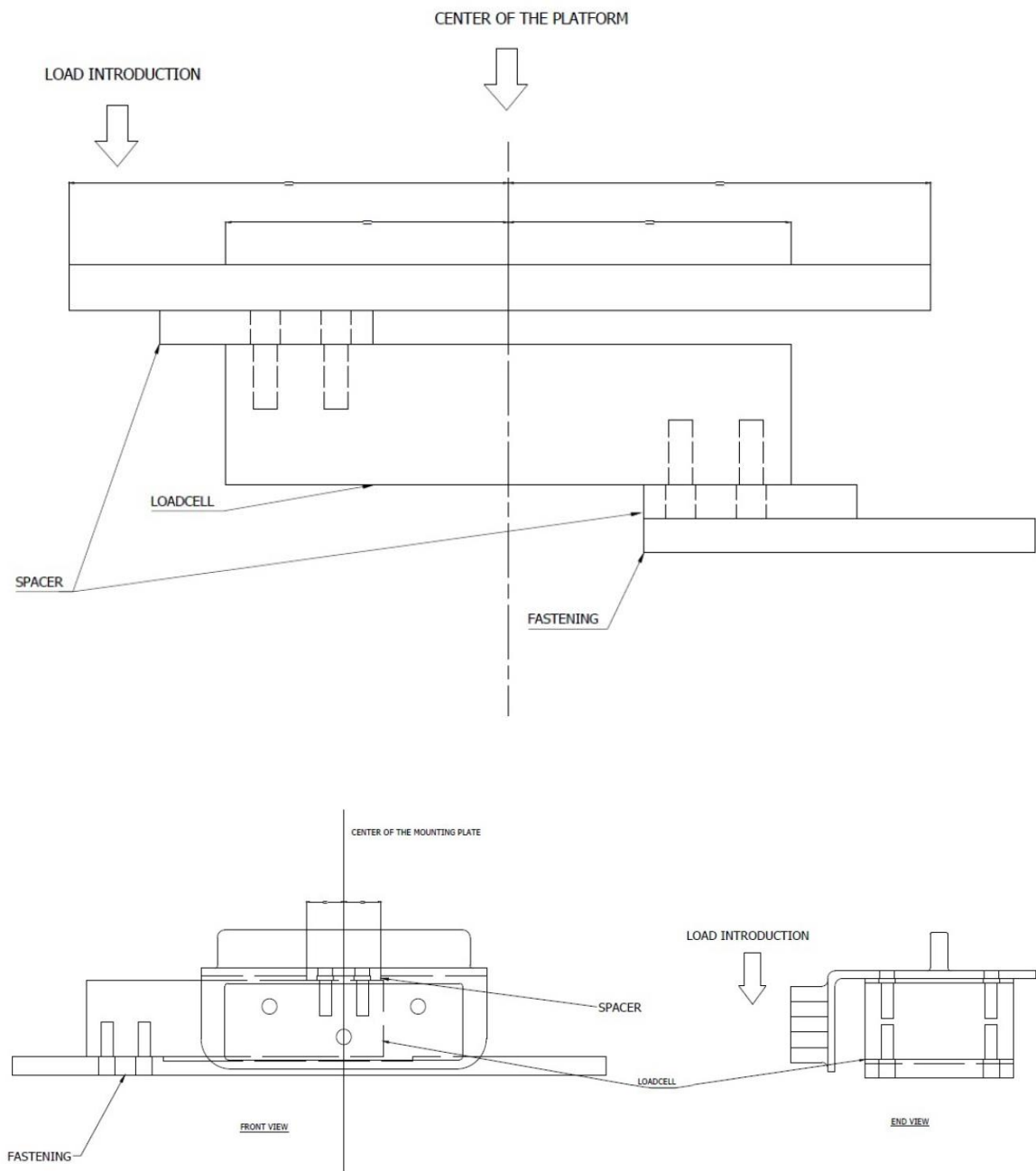
Anyload Model 651KSBC Series Load Cell

FIGURE S795 – 7



Anyload Model 651TS Series Load Cell

FIGURE S795 – 8



Typical Mounting Method (pattern and variants)

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