



Australian Government
Department of Industry,
Innovation and Science

**National
Measurement
Institute**

Supplementary Certificate of Approval

NMI S415

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.

Celtron Model SEB 1.5t Load Cell

submitted by Scale Components
 now of 4 Dan Street
 Slacks Creek QLD 4127

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 **1/2/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	17/01/03
1	Pattern and variant 1 approved – certificate issued	23/10/03
2	Pattern and variant 1 reviewed – notification of change issued	14/10/08
3	Pattern and variant 1 updated & reviewed – certificate issued	11/05/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S415' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S415' 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.



Dr A Rawlinson

TECHNICAL SCHEDULE No S415

1. Description of Pattern

approved on 17/01/03

A Celtron model SEB 1.5t load cell of 1500 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3000 verification intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figures 2 to 4.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Celtron Technologies, Taiwan
Model number
Maximum capacity, E_{max} kg
Serial number
Pattern approval mark	NMI S415

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1

approved on 17/01/03

Certain other models of the SEB series and in capacities as listed in Table 1.

TABLE 1

Type: Celtron SEB	1.5 t	2t	2.5t	5t	7.5t
Maximum capacity, E_{max} (kg)	1500	2000	2500	5000	7500
Accuracy class	C	C	C	C	C
Maximum number of verification intervals, nLC	3000	3000	3000	3000	3000
Minimum value of verification interval, v_{min} (kg)	0.15	0.2	0.25	0.5	0.75
Minimum dead load output return value, DR (kg)	0.25	0.33	0.42	0.83	1.25
Output rating (nominal), mV/V	3	3	3	3	3
Input impedance (nominal), (Ω)	385	385	385	385	385
Supply voltage (AC or DC), (V)	5 – 20	5 – 20	5 – 20	5 – 20	5 – 20
Cable length (± 0.1 m), (m)	6	6	6	6	6
Number of leads (plus shield)	4	4	4	4	4

FIGURE S415 – 1



Typical Celtron SEB Series Load Cells (pattern & variant 1)

FIGURE S415 – 2



Anti-vibration Mounting



Articulated Top Plate Assembly



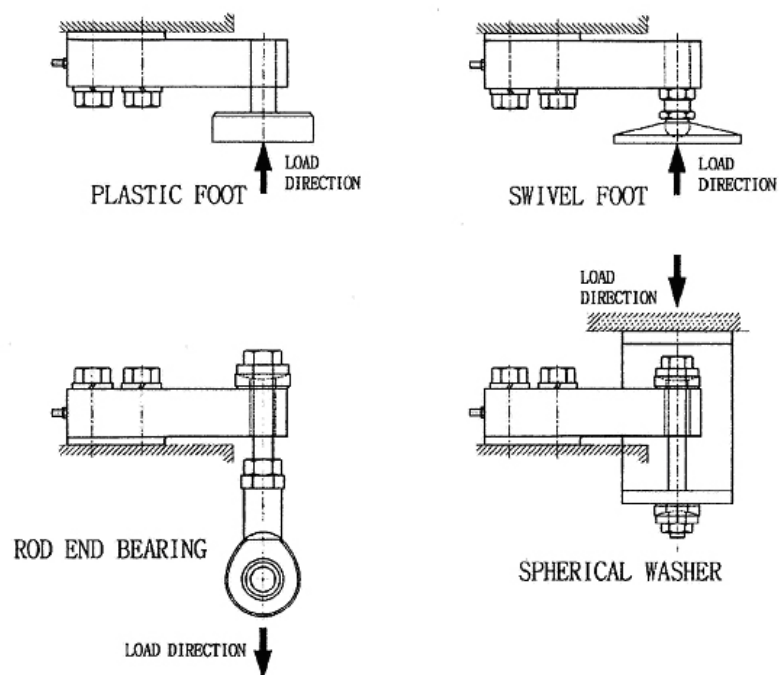
Tension Wire Rope Assembly



Self-aligning Neoprene Foot

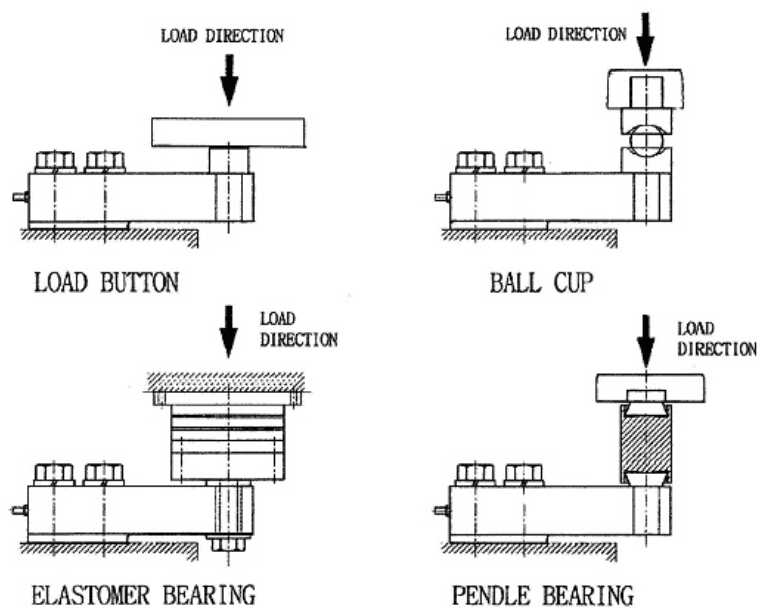
Alternative Mounting Methods

FIGURE S415 – 3



More Alternative Mounting Methods

FIGURE S415 – 4



More Alternative Mounting Methods

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