

# National Measurement Institute

# Supplementary Certificate of Approval NMI S444

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.

CAS Model BSA-1t Load Cell

submitted by CAS Corporation

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Republic of Korea

**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 1/10/21, and then every 5 years thereafter.

#### **DOCUMENT HISTORY**

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	17/09/04
1	Pattern and variant 1 approved – certificate issued	14/01/05
2	Pattern and variant 1 reviewed – notification of change issued	16/04/10
3	Pattern and variant 1 updated & reviewed – certificate issued	18/08/16

#### CONDITIONS OF APPROVAL

#### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S444' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S444' 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*.

Dr A Rawlinson

#### TECHNICAL SCHEDULE No S444

#### 1. Description of Pattern

#### approved on 17/9/04

A CAS model BSA-1t load cell of 1000 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 Figure 2.

#### 1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full CAS Corporation Model number ....... kg Serial number ....... kg

Pattern approval mark NMI S444

#### 1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

#### 2. Description of Variant 1

approved on 17/9/04

Certain other models and capacities as listed in Table 1.

TABLE 1

Type: CAS BSA Series, in models BSA- # where # is the value listed below:

Model BSA:	1t	2t	3t	5t
Maximum capacity, $E_{max}$ (kg)	1000	2000	3000	5000
Accuracy class	С	С	С	С
Maximum number of verification intervals, nLC	3000	3000	3000	3000
Minimum value of verification interval, $v_{min}$ (kg)	0.166	0.331	0.498	0.830
Minimum dead load output return value, DR (kg)	0.166	0.331	0.498	0.830
Output rating (nominal), mV/V	3	3	3	3
Input impedance (nominal), $(\Omega)$	350	350	350	350
Supply voltage (AC or DC), (V)	10 – 15	10 – 15	10 – 15	10 – 15
Cable length (±0.1 m), (m)	5	5	5	5
Number of leads (plus shield)	4	4	4	4

## FIGURE S444 - 1



CAS Model BSA-1t Load Cell (pattern)

FIGURE S444 - 2





Mounting Methods

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