Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/10B/91

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 EZY LODEC Weighing Instrument

submitted by Australasia Scales Pty Ltd
trading as Sensortronic Weighing and Inspection Australasia
Unit 1/944 Nudgee Road
Banyo QLD 4014.

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 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on 1/01/21, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	22/12/15
1	Variant 2 approved – interim certificate issued	14/03/16
2	Pattern & variants 1 & 2 approved – certificate issued	16/06/16
3	Certificate holder & variants 1 & 2 amended – certificate issued	07/08/19

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/10B/91' 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0B.

The pattern as approved herein or with substitute approved load cells and/or approved indicators and in other capacities, or with different platform sizes, shall comply with General Certificate of Approval No 6B/0.

Note: New instruments manufactured under this approval shall only use load cells and/or indicators with current Supplementary Certificates of Approval.

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 6/10B/91

1. Description of Pattern approved on 22/12/15

A CAS model EZY LODEC class (III) non-automatic self-indicating weighing instrument (Figure 1) of 40 000 kg maximum capacity and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model EZY LODEC basework has the platform fully supported by 6 load cells. The dimensions of the platform are 12 × 3 m (nominal).

1.2 Load Cells

Six CAS model WBK-25t load cells of 25 000 kg capacity are used.

The load cells are also described in the documentation of approval NMI S442.

1.3 Indicator

A Rinstrum model R420 digital indicator is used.

The indicator is also described in the documentation of approval NMI S463.

1.4 Weighbridge Requirements

Where the instrument is intended to be installed as a weighbridge, it shall be ensured that all relevant weighbridge requirements of the National Measurement Legislation are met (e.g. in relation to weighbridge approaches, visibility and the location of the weighbridge indicator and platform).

This approval does not certify that such requirements have (or can be) met.

The requirements of the National Measurement Legislation regarding the ground or floor under the platform vary according to whether the instrument is installed as a portable weighbridge, weighbridge without a pit or a weighbridge with a pit. However, bolting of the load cell support pads to suitable concrete piers is considered essential to provide a suitable stable base, irrespective of other aspects of instrument installation.

Note that it is important that suitable provision be made for the loading of test masses. For example, clear access for a forklift may be necessary at both sides of the platform.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Provision is made for the calibration adjustments in the indicator to be sealed as described in the approval documentation for the indicator used.

1.7 Descriptive Markings

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full	CAS Corporation
Importer's mark, or name	Australasia Scales Pty Ltd
Indication of accuracy class	(III)
Pattern approval mark for the instrument	NMI 6/10B/91
Pattern approval mark for the indicator	NMI S…
Pattern approval mark for the load cells	NMI S…
Maximum capacity	*Max* ..... t or kg #1
Minimum capacity	*Min* ..... t or kg #1
Verification scale interval	*e* = ... t or kg #1
Serial number of the instrument	……..

#1 These markings are also shown near the display of the result if they are not already located there.

2. Description of Variant 1 — approved on 22/12/15 amended on 07/08/19

Other EZY LODEC series instruments in certain other capacities.

The platform is fully supported by no less than 4 and with up to 12 NMI-approved load cells. Instruments may be in capacities of 30 000 kg up to 80 000 kg using approved load cells and an approved digital indicator (in accordance with General Certificate of Approval No 6B/0).

Instruments are approved for use with up to 4000 verification scale intervals (subject to the approval parameters of the load cells and indicator).

Instruments used with more than 3000 verification scale intervals shall be provided with wind protection in accordance with clause **4. Wind Effects** of General Certificate of Approval No 6B/0.

3. Description of Variant 2 — approved on 14/03/16 amended on 07/08/19

ASQ series instruments (Figure 2) which are similar to the pattern but which have a concrete infill load receptor (unlike the EZY LODEC series which has a steel constructed load receptor).

Instruments may be in capacities of 30 000 kg up to 120 000 kg using NMI-approved load cells and an NMI-approved digital indicator (in accordance with General Certificate of Approval No 6B/0).

TEST PROCEDURE No 6/10B/91

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/10B/91 – 1

CAS Model EZY LODEC Weighing Instrument

FIGURE 6/10B/91 – 2

CAS Model ASQ Weighing Instrument

~ End of Document ~