Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4C/321

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 SWII-6CW Weighing Instrument

submitted by CAS Corporation
#262, Geurugogae-ro, Gwangjeok-myeon
Yangju-si, Gyeonggi-do, 11415
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 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated October 2015.

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 3 approved – certificate issued	27/04/21
1	Variants 4 to 5 approved & Figures 1 to 2 updated – certificate issued	06/06/25

CONDITIONS OF APPROVAL

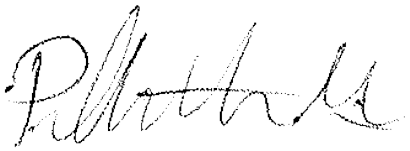
General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/321' 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.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Phillip Mitchell
A/g Manager
Policy and Regulatory
Services

TECHNICAL SCHEDULE No 6/4C/321

1. Description of Pattern approved on 27/04/21

A CAS model SWII-6CW class (III) self-indicating multi-interval non-automatic weighing instrument (Figure 1 and Table 1) with a verification scale interval (e_1) of 0.001 kg up to 3 kg and with a verification scale interval (e_2) of 0.002 kg from 3 kg up to 6 kg. The minimum capacity is 0.02 kg.

Instruments are fitted with two integral 7-segment LCD displays for the operator and customer.

Instruments are fitted with a 237 mm x 192 mm platform.

Power for the SWII-6CW instrument may be supplied by:

- an AC/DC mains adaptor; or/and
- an internal 6 V rechargeable battery; or/and
- 4 x 1.5 V D size dry battery.

Note: The AC/DC mains adaptor supplied for the instrument was a JFEC model JF012WR-0900100SH (output 9 V DC, 1 A) – the submittor should be consulted regarding the acceptability of alternative power supply units.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device of the pattern has a nominal range of approximately 20% of the maximum capacity of the instrument.

The instrument maybe fitted with a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive tare device of up to 2.999 kg capacity may be fitted.

1.3 Levelling

The Instrument is provided with adjustable feet and a level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

1.4 Display Check

A display check is initiated whenever power is applied.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Additional Features

Instruments may be fitted with certain additional functions (e.g. check weighing (HI/OK/LO), counting and hold function). The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

1.7 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	CAS Corporation
Indication of accuracy class	(III)
Pattern approval number for the instrument	NMI 6/4C/321
Maximum capacity	*Max* ..... g or kg #1
Minimum capacity	*Min* ..... g or kg #1
Verification scale interval	*e* = ... g or kg #1
Maximum subtractive tare	*T* = - ……. g or kg #2
Serial number of the instrument	……..

#1 These markings are shown near the display of the result.

#2 This marking is required if *T* is not equal to *Max*.

Notes:

For multi-interval instruments the markings shall be as above, with the exception that the 'Maximum capacity' and 'Verification scale interval' shall be marked for both interval ranges, e.g. as follows:

Maximum capacity	*Max* ...../..... g or kg
Verification scale interval	*e* = .../..... g or kg

1.8 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a 'lead and wire' type seal with drilled screws (Figure 3a) or a destructible adhesive label placed over the screws on the cover plate underneath the instrument (Figure 3b).

1.9 Software

The software is designed V 4xx or AU4xx, where xx reflecting non-legally relevant part of the software.

The software version and number can be seen in the switch-on display sequence (when the power is first applied to the instrument).

2. Description of Variant 1 **approved on 27/04/21**

The CAS model SWII-CW multi-interval instruments in certain other capacities as listed in Table 1 (the pattern is shown in **bold**).

Table 1

Maximum Capacity (Max_1/Max_2)	Minimum Capacity (*Min*)	Verification Scale Interval (e_1/e_2)	Subtractive Tare Capacity (*T* = -…)
1.5/3 kg	0.010 kg	0.0005/0.001 kg	1.4995 kg
3/6 kg	**0.020 kg**	**0.001/0.002 kg**	**2.999 kg**
6/15 kg	0.040 kg	0.002/0.005 kg	5.998 kg
15/30 kg	0.100 kg	0.005/0.010 kg	14.995 kg

3. Description of Variant 2 approved on 27/04/21

The CAS model SWII-CW single interval instruments in certain capacities as listed in Table 2.

Table 2

Maximum Capacity (*Max*)	Minimum Capacity (*Min*)	Verification Scale Interval (*e*)	Subtractive Tare Capacity (*T* = -…)
3 kg	0.020 kg	0.001 kg	3 kg
6 kg	0.040 kg	0.002 kg	6 kg
15 kg	0.100 kg	0.005 kg	15 kg
30 kg	0.200 kg	0.010 kg	30 kg

4. Description of Variant 3 approved on 27/04/21

CAS model SWII-EW (Figure 2) which is similar to the pattern and variants 1 to 2, except having LED displays for the operator and customer.

5. Description of Variant 4 approved on 06/06/25

CAS model SWII-CWS (Figure 4) which is similar to the pattern and variants 1 to 2, except having a stainless steel housing.

6. Description of Variant 5 approved on 06/06/25

CAS model SWII-EWS (Figure 5) which is similar to variant 3, except having a stainless steel housing.

TEST PROCEDURE No 6/4C/321

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

Maximum Permissible Errors

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

Tests

For multi-interval and multiple range instruments with verification scale intervals of e_1, e_2 …, apply e_1 for zero adjustment, and maximum permissible errors apply e_1, e_2 …, as applicable for the load.

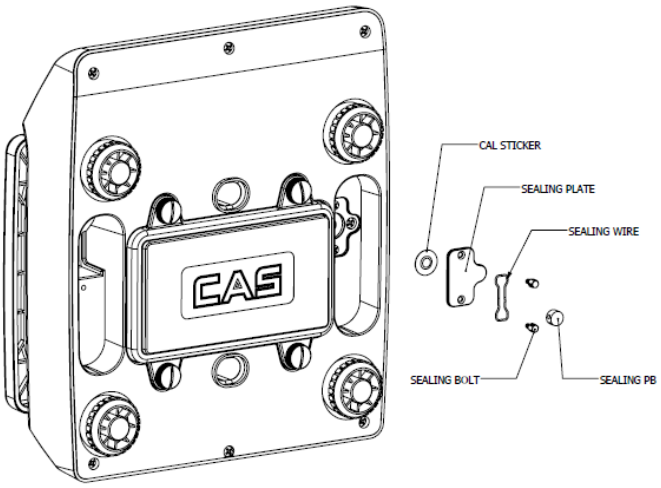
FIGURE 6/4C/321 – 1

CAS Model SWII-CW Weighing Instrument (Pattern)

FIGURE 6/4C/321 – 2

CAS Model SWII-EW Weighing Instrument (Variant 3)

FIGURE 6/4C/321 – 3



(a) Lead and Wire Type of Seal

(b) Sealing Arrangements – Destructible Adhesive Label (Cover Plate)

Typical Sealing Method

FIGURE 6/4C/321 – 4

CAS Model SWII-CWS Weighing Instrument (Variant 4)

FIGURE 6/4C/321 – 5

CAS Model SWII-EWS Weighing Instrument (Variant 5)

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