



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 6/4C/279

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 PW-II Weighing Instrument

submitted by CAS Corporation
482-841, 19 Ganap-Ri, Gwangjoek-myeon
Yangju-si, Gyeonggi-do
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 July 2004.

This approval becomes subject to review on 1/06/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	17/05/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/279' 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.

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*.

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No 6/4C/279

1. Description of Pattern

approved on 17/05/13

A CAS model PW-II class III non-automatic self-indicating multi-interval self-indicating weighing instrument (Figure 1) with a verification scale interval e_1 of 0.001 kg up to 2.5 kg and with a verification scale interval e_2 of 0.002 kg from 2.5 kg up to 5 kg.

The instrument is fitted with one liquid crystal display for display of the weight value.

Instruments shall be marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording).

Power for the PW-II instrument may be supplied by either:

- an AC/DC mains adaptor; and/or
- 6 × 1.5 V AA size dry batteries.

Note: The AC/DC mains adaptor supplied for the instrument was a CAS model FKS106HSC-0900300E (9 V DC, 0.3 A) – the submitter should be consulted regarding the acceptability of alternative power supply units.

1.1 Zero

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

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

A zero-tracking device may be fitted.

1.2 Tare

A semi-automatic subtractive tare device of up to 2.499 kg may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice stating 'Instrument must be level when in use' or similar wording.

1.5 Additional Features

Instruments may be fitted with a HOLD function. The function and display are not approved for trade use.

1.6 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

Provision is made for access to the calibration switch within the instrument to be sealed by means of lead and wire or similar type seals with a sealing bolt and a cover plate as shown in Figure 2.

1.5 Descriptive Markings and Notices

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 Corp Korea
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI 6/4C/279
Maximum capacity	<i>Max</i>/..... g or kg #1
Minimum capacity	<i>Min</i> g or kg #1
Verification scale interval	<i>e</i> =/..... g or kg #1
Maximum subtractive tare	<i>T</i> = - g or kg #2
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 This marking is required if *T* is not equal to *Max*.

In addition, instruments shall carry a notice stating NOT FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

2. Description of Variant 1 approved on 17/05/13

The model PW-II in certain other capacities as listed in Table 1.

TABLE 1

Maximum Capacity (<i>Max</i> ₁ / <i>Max</i> ₂)	Minimum Capacity (<i>Min</i>)	Verification Scale Interval (<i>e</i> ₁ , <i>e</i> ₂)	Maximum Subtractive Tare Capacity (<i>T</i> = - ...)
1/2 kg	0.01 kg	0.0005/0.001 kg	0.9995 kg
2.5/5 kg	0.02 kg	0.001/0.002 kg	2.499 kg
4/10 kg	0.04 kg	0.002/0.005 kg	3.998 kg

The pattern is shown in **bold** text.

TEST PROCEDURE No 6/4C/279

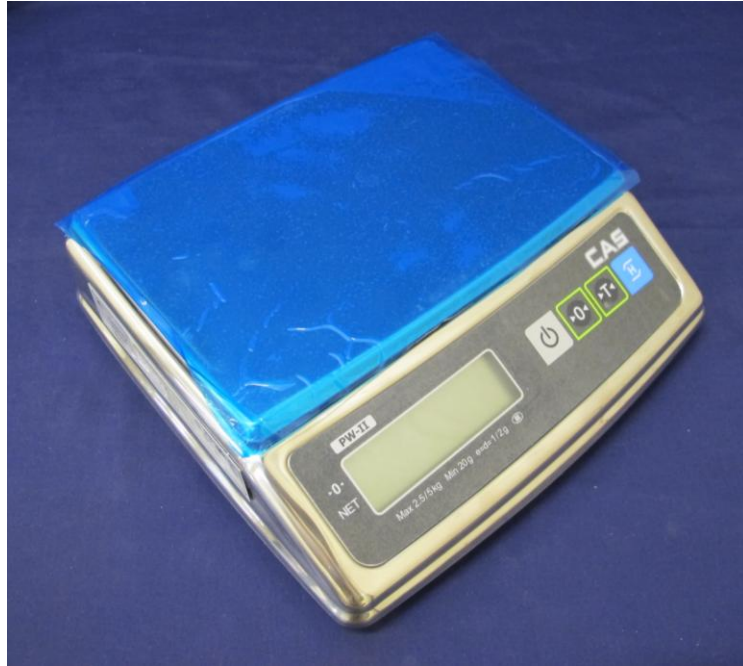
Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

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

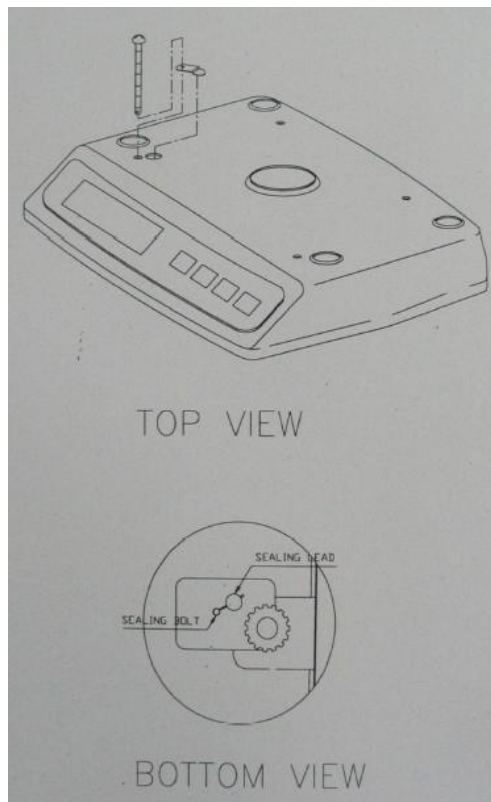
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/4C/279 – 1



CAS Model PW-II Weighing Instrument

FIGURE 6/4C/279 – 2



Typical Mechanical Sealing

~ End of Document ~