



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval
NMI 6/4D/317

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that the approval for use for trade granted in respect of the

CAS Model LP-II Weighing Instrument

submitted by CAS Corporation
19 Ganap-Ri, Gwangjoek-Myeon
Yangju-Si, Gyeonggi-Do
Republic of Korea

has been cancelled in respect of new instruments as from 1 August 2015.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	28/05/04
1	Pattern & variant 1 approved – certificate issued	17/12/04
2	Pattern & variant 1 reviewed– notification of change issued	16/04/10
3	Pattern & variant 1 cancelled – cancellation certificate issued	6/07/15

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



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Certificate of Approval
No 6/4D/317

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
CAS Model LP-II Weighing Instrument

submitted by CAS Corporation
#19, Ganap-Ri, Gwangjuk-Myun
Yangju-Gun, 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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 June 2009, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NSC' 6/4D/317' and only by persons authorised by the submittor.

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 National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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

Special Condition of Approval:

Certain aspects of this instrument (in particular label formats) are able to be configured by the user. Whilst the Commission believes that acceptable label and ticket formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

DESCRIPTIVE ADVICE

Pattern: approved 28 May 2004

- A CAS model LP-II multi-interval price-computing weighing instrument of 6 kg maximum capacity.

Variant: approved 28 May 2004

1. With certain other maximum capacities.

Technical Schedule No 6/4D/317 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/317 dated 17 December 2004
Technical Schedule No 6/4D/317 dated 17 December 2004 (incl. Test Procedure)
Figures 1 and 2 dated 17 December 2004



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

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.

TECHNICAL SCHEDULE No 6/4D/317

Pattern: CAS Model LP-II Weighing Instrument

Submittor: CAS Corporation
#19, Ganap-Ri, Gwangjuk-Myun
Yangju-Gun, Gyeonggi-Do
Republic of Korea

1. Description of Pattern

A CAS model LP-II multi-interval self-indicating price-computing weighing instrument (Figure 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 the maximum capacity of 6 kg.

Instruments are fitted with a double-sided column-mounted display and an integral label printer (#). Instruments have unit price to \$9999.99/kg, price to \$99999.99, a product look up (PLU) facility, and may be fitted with output sockets for the connection of peripheral and/or auxiliary devices.

(#) Refer to the Special Condition of Approval.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e_1$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

The initial zero-setting device of the pattern 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.

1.2 Tare

A semi-automatic subtractive tare device of up to maximum capacity and/or a keyboard-entered pre-set subtractive tare device of up to 2.999 kg capacity may be fitted.

A display for tare values is provided.

Pre-set tare values may be associated with product look up (PLU) items.

1.3 Power Supply

The instrument operates from mains AC power (240 V AC nominal).

1.4 Levelling

The instrument is provided with adjustable feet and adjacent to the level indicator is a notice advising that the instrument must be level when in use.

1.5 Display Check

A display check is initiated whenever power is applied.

1.6 Networking

A number of instruments may be connected in a network to share common PLU data, and to accumulate and retrieve management information.

In addition, the network may be interfaced with a computer for the collection of management data, or the downloading of PLU data.

Note: The weighing and price-computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate reverification of any other weighing instrument in the network.

1.7 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	CAS, Corp Korea
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NSC No 6/4D/317
Maximum capacity	Max/..... kg *
Minimum capacity	Min kg *
Verification scale interval	e =/..... kg *
Maximum subtractive tare	T = - kg
Serial number of the instrument

* These markings shall also be shown near the display of the result if they are not already located there.

1.8 Sealing Provision

Provision is made for the calibration adjustments in the indicator to be sealed by sealing a cover over the hole on the underside of the instrument that provides access to the calibration switch. This cover is sealed by a lead and wire (or similar) seal (Figure 2).

1.9 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

2. Description of Variant 1

As multi-interval instruments of certain other capacities as listed below:

- with a verification scale interval (e_1) of 0.002 kg up to 6 kg and with a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg.

A semi-automatic subtractive tare device of up to maximum capacity and/or a keyboard-entered pre-set subtractive tare device of up to 5.998 kg capacity may be fitted.

- with a verification scale interval (e_1) of 0.005 kg up to 15 kg and with a verification scale interval (e_2) of 0.01 kg from 15 kg up to the maximum capacity of 30 kg.

A semi-automatic subtractive tare device of up to maximum capacity and/or a keyboard-entered pre-set subtractive tare device of up to 14.995 kg capacity may be fitted.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5 e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5 e$ for loads $2\,000 < m \leq 10\,000$.

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



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Notification of Change
Certificate of Approval No 6/4D/317
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the
CAS Model LP-II Weighing Instrument

submitted by CAS Corporation
19 Ganap-Ri, Gwangjoek-Myeon
Yangju-Si, Gyeonggi-Do
Republic of Korea.

- A. In Certificate of Approval No 6/4D/317 dated 17 December 2004;
1. The Condition of Approval referring to the review of the approval should be amended to read:
"This approval becomes subject to review on 1 June **2014**, and then every 5 years thereafter."
 2. The FILING ADVICE should be amended by adding the following:
"Notification of Change No 1 dated 16 April 2009"

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

A handwritten signature in black ink, consisting of a series of loops and flourishes, positioned to the right of the signature text.

FIGURE 6/4D/317 – 1



CAS Model LP-II Weighing Instrument

6/4D/317
17 December 2004

FIGURE 6/4D/317 – 2



A Typical Sealing Method