



**Australian Government**

**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

# **Notification of Change**

## **Certificate of Approval No 6/4D/326**

### **Change No 2**

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 1.6 Weighing Instrument

submitted by       CAS Corporation  
                          19 Kanap-Ri, Gwangjoek-Myun  
                          Yangju-Si, Kyunggi-Do  
                          Republic of Korea.

In Certificate of Approval No 6/4D/326 dated 28 February 2006;

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 October **2015**, and then every 5 years thereafter.”
2. The FILING ADVICE should be amended by adding the following:  
          “Notification of Change No 1 dated 11 April 2006  
          Notification of Change No 2 dated 1 April 2011”

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 stylized, cursive letters, positioned to the right of the signature text.



**Australian Government**  
**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Certificate of Approval**  
**No 6/4D/326**

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 1.6 Weighing Instrument

submitted by CAS Corporation  
19 Kanap-Ri, Gwangjoek-Myun  
Yangju-Si, Kyunggi-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 October 2010, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4D/326' 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 NMI believes that acceptable label 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 30 September 2005

- A CAS model LP 1.6 single interval self-indicating price-computing weighing instrument with a maximum capacity of 6 kg.

**Variants:** approved 30 September 2005

1. With column-mounted displays.
2. With certain other maximum capacities.

Technical Schedule No 6/4D/326 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4D/326 dated 28 February 2006  
Technical Schedule No 6/4D/326 dated 28 February 2006 (incl. Test Procedure)  
Figures 1 to 3 dated 28 February 2006



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/326

**Pattern:** CAS Model LP 1.6 Weighing Instrument

**Submittor:** CAS Corporation  
19 Kanap-Ri, Gwangjoek-Myun  
Yangju-Si, Kyunggi-Do  
Republic of Korea

## 1. Description of Pattern

A CAS model LP 1.6 single interval self-indicating price-computing weighing instrument (Figure 1) of maximum capacity of 6 kg with a verification scale interval of 0.002 kg.

Instruments are fitted with an operator display on one side of the instrument, a customer display on the other, and an integral label printer (#). The displays are liquid crystal display (LCD) panels.

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 (output interfacing capability) for the connection of peripheral and/or auxiliary devices.

The instrument operates from mains AC power.

(#) Refer to the Special Condition of Approval.

### 1.1 Zero

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

### 1.2 Tare

A semi-automatic subtractive tare device of up to 2.99 capacity may be fitted.

### 1.3 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.

### 1.4 Display Check

A display check is initiated whenever power is applied.

### 1.5 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

### 1.6 Sealing Provision

Provision is made for the calibration adjustment access hole located under the load receptor to be sealed by means of a wire and lead seal as shown in Figure 2.

### 1.7 Descriptive Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	CAS Corporation
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	6/4D/326
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 are also shown near the display of the result if they are not already located there.

## 2. Description of Variants

### 2.1 Variant 1

With the customer and vendor displays mounted on a column (Figure 3).

### 2.2 Variant 2

In certain other capacities as listed below:

- with a maximum capacity of 15 kg with a verification scale interval of 0.005 kg. The tare capacity is limited to a maximum of 5.99 kg; and
- with a maximum capacity of 30 kg with a verification scale interval of 0.010 kg. The tare capacity is limited to a maximum of 9.99 kg.

## TEST PROCEDURE

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

### Maximum Permissible Errors at Verification/Certification

For single interval instruments, the maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads,  $m$ , expressed in verification scale intervals,  $e$ , are:

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



**Australian Government**  
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12 Lyonpark Road, North Ryde NSW 2113

**Notification of Change**  
**Certificate of Approval No 6/4D/326**  
**Change No 1**

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

The following change is made to the approval documentation for the

CAS Model LP 1.6 Weighing Instrument

submitted by CAS Corporation  
19 Kanap-Ri, Gwangjoek-Myun  
Yangju-Si, Kyunggi-Do  
Republic of Korea.

In Technical Schedule No 6/4D/326 dated 27 February 2006, in clause **1. Description of Pattern**, the last sentence of the second paragraph should be amended to now read:

“The displays are **vacuum fluorescent** display (**VFD**) panels.”

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. H. T.', written in a cursive style.

FIGURE 6/4D/326 – 1



CAS Model LP 1.6 Weighing Instrument

6/4D/326  
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FIGURE 6/4D/326 – 2



Sealing of Calibration Access Hole – Beneath Instrument



FIGURE 6/4D/326 – 3



With Typical Column-mounted Displays