



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

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Certificate of Approval No 6/4C/97**

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 AD-1 Weighing Instrument  
submitted by CAS Corporation  
#19, Ganap-Ri, Gwangjuk-Myun  
Yangju-Gun, Gyeonggi-Do  
Republic of Korea

has been cancelled in respect of new instruments as from 1 June 2007.

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.

# National Standards Commission



## Certificate of Approval

No 6/4C/97

Issued under Regulation 9  
of the  
National Measurement (Patterns of Measuring Instruments) Regulations

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

CAS Model AD-1 Weighing Instrument

submitted by CAS Corporation  
440-1 Sungnae-Dong  
Kangdong-Ku Seoul 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 2001, and every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/4C/97 and only by persons authorised by the submitter.

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 Commission 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 the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

#### DESCRIPTIVE ADVICE

**Pattern:** approved 17 May 1996

. A CAS model AD-1 self-indicating weighing instrument with a maximum capacity of 15 kg.

**Variants:** approved 17 May 1996

1. Of 6 kg maximum capacity.
2. Of 30 kg maximum capacity.

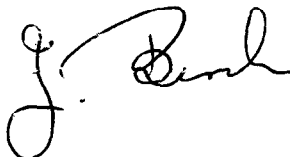
Technical Schedule No 6/4C/97 describes the pattern and variants 1 & 2.

#### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/4C/97 dated 23 September 1996  
Technical Schedule No 6/4C/97 dated 23 September 1996 (incl. Test  
Procedure)  
Figure 1 dated 23 September 1996

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. B. Smith' or similar, written in a cursive style.



## National Standards Commission

### TECHNICAL SCHEDULE No 6/4C/97

**Pattern:** CAS Model AD-1 Weighing Instrument.

 **Submittor:** CAS Corporation  
440-1 Sungnae-Dong  
Kangdong-Ku Seoul Korea

#### 1. Description of Pattern

A CAS model AD-1 self-indicating weighing instrument (Figure 1) of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

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

##### 1.2 Tare

A semi-automatic subtractive taring device of up to 9.995 kg capacity 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 a level indicator.

##### 1.5 Verification/Certification Provision

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

##### 1.6 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of a destructible label over the access hole located under the load receptor.

## 1.7 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4C/97
Accuracy class	III
Maximum capacity	Max ..... kg *
Minimum capacity	Min ..... kg *
Verification scale interval	e = ..... kg *
Maximum subtractive tare	T = - ..... kg

\* Repeated adjacent to each reading face.

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

## 2. Description of Variants

### 2.1 Variant 1

Of 6 kg maximum capacity with a verification scale interval of 0.002 kg.

A semi-automatic subtractive taring device of up to maximum capacity may be fitted.

### 2.2 Variant 2

Of 30 kg maximum capacity with a verification scale interval of 0.010 kg.

A semi-automatic subtractive taring device of up to 9.99 kg capacity may be fitted.

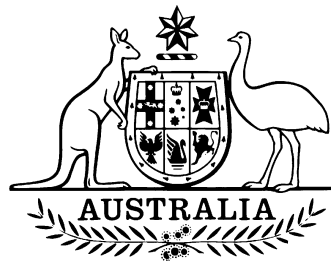
## TEST PROCEDURE

Instruments should be tested in conjunction with any relevant tests specified in the Inspector's Handbook.

### Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within  $\pm 0.25e$  at no load, are:

- $\pm 0.5e$  for loads from 0 to  $500e$ ;
- $\pm 1.0e$  for loads over  $500e$  up to  $2000e$ ; and
- $\pm 1.5e$  for loads over  $2000e$ .



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Notification of Change

#### Certificate of Approval No 6/4C/97

#### Change No 1

The following changes are made to the approval documentation for the  
CAS Model AD-1 Weighing Instrument

submitted by CAS Corporation  
now of #19, Ganap-Ri, Gwangjuk-Myun  
Yangju-Gun, Gyeonggi-Do  
Republic of Korea.

1. In Certificate of Approval No 6/4C/97 dated 23 September 1996, 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 2006, and then every 5 years thereafter."
2. In Certificate of Approval No 6/4C/97 and its Technical Schedule both dated 23 September 1996, the address of the submitter should be amended to read:  
#19, Ganap-Ri, Gwangjuk-Myun  
Yangju-Gun, Gyeonggi-Do  
Republic of Korea.

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



FIGURE 6/4C/97 - 1



CAS Model AD-1 Weighing Instrument