



Australian Government
Department of Industry, Science,
Energy and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval NMI 6/4D/394

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 PRII-CP Weighing Instrument

submitted by CAS Corporation
#262, Geurugogae-ro, Gwangjeok-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 1/07/25, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 7 approved – certificate issued	25/06/20

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4D/394' 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.

Special Conditions of Approval:

Certain aspects of this instrument (in particular label and ticket formats) are able to be configured by the user. Whilst NMI 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.

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



Darryl Hines
Manager
Policy and Regulatory
Services

TECHNICAL SCHEDULE No 6/4D/394

1. Description of Pattern

approved on 25/06/20

A CAS model PR11-15CP class III self-indicating multi-interval non-automatic price computing weighing instrument (Figure 1 and Table 1) 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 15 kg. The minimum capacity is 0.04 kg.

Instruments are fitted with an operator keyboard and two pole-mounted 7-segment LCD displays for the operator and customer. Both LCD displays are used for the presentation of tare, weight, unit price and price information, zero, net indications and functions relating to product look up (PLU) items.

Instruments are fitted with a CAS model DEP-50 external receipt printer (Figure 7), for printing of tickets (#).

Instruments have unit price up to \$999999/kg, price up to \$9999.99, a product look up (PLU) facility.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

Instruments are fitted with a 330 mm x 235 mm platform.

Power for the PR11-15CP instrument may be supplied by:

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

Note: The AC/DC mains adaptor supplied for the instrument was a JFEC model JF005WR-0600050SH (6 V DC, 0.5 A) – the submitter should be consulted regarding the acceptability of alternative power supply units.

(#) Refer to the Special Conditions of Approval in the certificate.

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 may be 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 5.998 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 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with Supplementary Certificate No S1/0B (in particular in regard to the data and its format).

Instruments may be fitted with RS232C and USB interfaces.

1.7 Descriptive Markings and Notices

Instruments are marked with the following data:

Manufacturer's mark, or name written in full	CAS Corporation
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI 6/4D/394
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*.

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	<i>Max</i>/..... g or kg
Verification scale interval	<i>e</i> =/..... g or kg

1.9 Sealing Provision

Provision is made for the calibration adjustments to be sealed by means of lead and wire type seals (Figure 8a) and destructible adhesive labels placed over the screws on the cover plate underneath the instrument (Figure 8b).

The ability to change calibration parameters is inhibited when the calibration jumper pins 1 and 2 remain open as shown in Figure 8c.

1.10 Software

The software is designed V 1.xx or AU 1.xx, 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 25/06/20**

CAS model PRII-EP (Figure 2) which is similar to the pattern, except having LED displays for the operator and customer.

3. Description of Variant 2 **approved on 25/06/20**

CAS model PRII-CB (Figure 3) is similar to the pattern, except having the operator and customer displays integrated within the instrument housing.

4. Description of Variant 3 **approved on 25/06/20**

CAS model PRII-EB (Figure 4) is similar to the variant 1, except having the operator and customer displays integrated within the instrument housing.

5. Description of Variant 4 **approved on 25/06/20**

CAS model PRII-CU (Figure 5) is similar to the pattern, except having the operator display integrated within the instrument housing.

6. Description of Variant 5 **approved on 25/06/20**

CAS model PRII-EU (Figure 6) is similar to the variant 1, except having the operator display integrated within the instrument housing.

7. Description of Variant 6 **approved on 25/06/20**

The pattern or variants as multi-interval instruments in certain other capacities as listed in Table 1 below (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

8. Description of Variant 7 **approved on 25/06/20**

The pattern or variants as single interval instruments in certain capacities as listed in Table 2 below.

Table 2

Maximum Capacity (Max)	Minimum Capacity (Min)	Verification Scale Interval (e)	Subtractive Tare Capacity ($T = -...$)
3 kg	0.020 kg	0.001 kg	2.999 kg
6 kg	0.040 kg	0.002 kg	5.998 kg
15 kg	0.100 kg	0.005 kg	14.995 kg
30 kg	0.200 kg	0.010 kg	29.990 kg

TEST PROCEDURE No 6/4D/394

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 $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

FIGURE 6/4D/394 – 1



CAS Model PRII-CP Weighing Instrument (Pattern)

FIGURE 6/4D/394 – 2



CAS Model PRII-EP Weighing Instrument (Variant 1)

FIGURE 6/4D/394 – 3



CAS Model PRII-CB Weighing Instrument (Variant 2)

FIGURE 6/4D/394 – 4



CAS Model PR11-EB Weighing Instrument (Variant 3)

FIGURE 6/4D/394 – 5



CAS Model PR11-CU Weighing Instrument (Variant 4)

FIGURE 6/4D/394 – 6



CAS Model PR11-EU Weighing Instrument (Variant 5)

FIGURE 6/4D/394 – 7

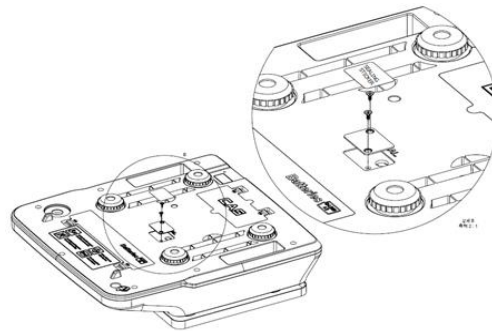


CAS Model DEP-50 Printer

FIGURE 6/4D/394 – 8



(a) Sealing Arrangements – Lead and Wire Type (Housing)



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



(c) Showing Jumper Pins

Typical Sealing Method

~ End of Document ~