

Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R76/1992-GB1-09.10  
Revision 3

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**  
Person responsible: **Mannie Panesar – Head of Technical Services**  
Applicant: **CAS Corporation  
#262, Geurugogae-ro  
Gwangjeok-myeon  
Yangju-si  
Gyeonggi-do  
Republic of Korea**  
Manufacturer: **The applicant**  
Identification of the certified pattern: **AP PLUS and AD PLUS Series, AP PLUS (and variants) and AD PLUS Models**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

### **OIML R76 - Edition 1992 (E) for accuracy class: III**

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

This revision replaces previous version of the certificate.

Issue Date: **02 November 2017**

A handwritten signature in black ink, appearing to read 'Gregory Glas'.

**Grégory Glas**  
**Lead Technical Manager**  
*For and on behalf of the Head of Technical Services*



0135

The conformity was established by testing and examinations described in the associated Evaluation Report P00240 which includes 13 pages.

**Characteristics of the instrument:**

The AP PLUS Series, AP PLUS Model (and variants) and AD PLUS Series, AD PLUS Model, are Class III, mains-operated, self-indicating, price-computing, single or dual-interval, non-automatic weighing instruments.

The instrument may be used for direct sales to the public.

**Metrological characteristics**

MODEL	AD PLUS							
Max (kg)	1.25/2.5	2.5	1.5/3	3	2.5/5	5	4/10	10
Min (g)	10	20	10	20	20	40	40	100
e= (g)	0.5/1	1	0.5/1	1	1/2	2	2/5	5
T (kg)	-1.2495	-2.5	-1.4995	-3	-2.499	-5	-3.998	-10
E <sub>max</sub> (kg)	2.5	2.5	3	3	5	5	10	10

MODEL	AD PLUS		AD PLUS / AP PLUS					
Max (kg)	12.5/25	25	3/6	6	6/15	15	15/30	30
Min (g)	100	200	20	20	40	40	100	100
e= (g)	5/10	10	1/2	2	2/5	5	5/10	5/10
T (kg)	-12.495	-25	-2.999	-6	-5.998	-15	-14.995	-30
E <sub>max</sub> (kg)	25	25	6	6	15	15	30	30

Note: E<sub>max</sub> in the above table refers to the actual measuring range and does not include the dead load for the instrument.

**Construction:**

- Steel construction
- Operator's keypad:
  - AP PLUS-EX Model: 52 keys, alphanumerical
  - AP PLUS-MX Model: 27 keys, alphanumerical
  - AP PLUS-M Model: 27 keys, alphanumerical
  - AP PLUS-EC Model: 45 keys, alphanumerical
  - AD PLUS Model: 4 keys
- Stainless steel load receptor
- VFD display (AD PLUS Model)
- Pole-mounted double-sided VFD display (AP PLUS Model)
- Level indicator

**Devices:**

- Initial zero setting device ( $\leq 20\%$  of Max)
- Semi-automatic zero setting device ( $\leq 4\%$  of Max)
- Zero tracking device ( $\leq 4\%$  of Max)
- Zero indicator
- Net indicator
- Semi-automatic subtractive tare balancing device
- Gravity compensation

- Price-computing (AP PLUS Model)
- Totalisation (including non-weighed items, AP PLUS Model)
- PLU (AP PLUS Model)

**Load cell:**

The instrument is fitted with CAS load cell model BC,  $E_{\max} = \text{Max} (+ \text{dead load})$ .

**Rated operating conditions:**

The instrument operates on a 110 or 240 Vac mains power supply.

The temperature range for the instruments is  $-10\text{ }^{\circ}\text{C} / +40\text{ }^{\circ}\text{C}$ .

**Software:**

The software identification shall be V2xx, with xx reflecting non-legally relevant changes. This information is displayed at power up.

Access to the legally relevant parameters and download of software via the RS232 communication port is prevented by sealing the enclosure (Sealing section).

**Interfaces**

The instrument may have the following interface types:

- RS232

**Sealing:**

Access to the electronics, load cell and calibration switch is prevented by sealing the enclosure using a tamper-evident method.

**Alternative manufacturers:**

CAS Elektronik San. Tic. A.S.  
Yukari Dudulu, Bostanci Cad. Mevduci Sokak No: 34  
Umraniye-Istanbul / Turkey

Shanghai CAS Electronics Co., Ltd,  
Maixinroad 448, Xinqiaozhen, Songjiangqu,  
Shanghai, China

CAS (Zhejiang) Electronics Co., Ltd  
99# Changjiang Road  
Jiashan County, Zhejiang Province  
China

**CERTIFICATE HISTORY**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R76/1992-GB1-09.10	06 November 2009	Certificate first issued.
R76/1992-GB1-09.10 Revision 1	02 February 2010	Instrument designation changed from AP to AP <sup>+</sup>
R76/1992-GB1-09.10 Revision 2	16 August 2010	Instrument designation changed from AP <sup>+</sup> to AP PLUS. Angel Series replaced by AP PLUS and AD PLUS Series. Model AD PLUS added to the certificate
R76/1992-GB1-09.10 Revision 3	02 November 2017	Applicant's address on the front page changed from: 19 Ganap-Ri, Gwangjuk-Myoun, Yangji-Si, Gyeonggi-Do 482-841, Republic of Korea Software and Sealing sections added. "Direct sales to the public" added Alternative manufacturer added: CAS (Zhejiang) Electronics Co., Ltd.