



**United Kingdom of Great Britain
and Northern Ireland**



**OIML Certificate No
R76/1992-GB1-09.10
Revision 2**

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory
(Part of the National Measurement Office)**
Address: **Stanton Avenue
Teddington
Middlesex
TW11 0JZ
United Kingdom**

Person responsible: **Paul Dixon - Product Certification Manager**

Applicant
Name: **CAS Corporation**
Address: **19 Ganap-Ri
Gwangjuk-Myoun
Yangji-Si
Gyeonggi-Do 482-841
Republic of Korea**

Manufacturer of the certified pattern is the Applicant, or the following companies:

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

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

Identification of the certified pattern:

**AP PLUS and AD PLUS Series, AP PLUS (and variants) and
AD PLUS Models, non-automatic weighing instruments**

Further characteristics see page 2

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 Organization of Legal Metrology (OIML):

OIML:	R76
Edition:	1992 (E)
Accuracy class:	III

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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.

The conformity was established by tests described in the associated:

NWML Test report:	SN 1107	having 46 pages
NWML Test report:	SN 1146	having 21 pages
NWML Test report:	SN 1121	having 26 pages
Pattern evaluation report:	P00240	having 13 pages

The issuing authority

The CIML member



Mr G Stones



Mr P Mason

Date: 16 August 2010

Ref: T1128/0273

This revision replaces earlier versions of this certificate.

Characteristics: 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.

Main features:

- Steel construction
- Operator's keypad:
 - AP PLUS-EX Model: 52 keys, alphanumeric
 - AP PLUS-MX Model: 27 keys, alphanumeric
 - AP PLUS-M Model: 27 keys, alphanumeric
 - AP PLUS-EC Model: 45 keys, alphanumeric
 - 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

Load cell: The load cell is CAS load cell, model BC.

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

Temperature-range: -10 to +40 °C

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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)

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 _{max} (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 _{max} (kg)	25	25	6	6	15	15	30	30

Note: E_{max} in the above table refers to the actual measuring range and does not include the dead load for the instrument.

Interfaces: The instrument may have a number of RS232 ports

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/1992-GB1-09.10	06 November 2009	Certificate first issued.
R76/1992-GB1-09.10 rev 1	02 February 2010	Instrument designation changed from AP to AP ⁺
R76/1992-GB1-09.10 rev 2	16 August 2010	Instrument designation changed from AP ⁺ to AP PLUS. Angel Series replaced by AP PLUS and AD PLUS Series. Model AD PLUS added to the certificate

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