



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

**OIML Certificate No
R76/1992-GB1-10.07**

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:

**Dolphin Series 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

**OIML Certificate No
R76/1992-GB1-10.07**

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 reports:	SN 1022	having 44 pages
	SN 1030	having 15 pages
Pattern evaluation report:	P00457	having 13 pages

The issuing authority



Mr P R Dixon

The CIML member



Mr P Mason

Date: 14 July 2010
Ref: TS1201/0003

Characteristics: Class III, mains or battery-operated, self-indicating, dual-interval, non-automatic weighing instruments designated Dolphin Series and comprising the EB, DB-II and DB-1H models and their variants

Max	30/60 kg	60/150 kg
Min	200 g	400 g
e	10/20 g	20/50 g
T	-29.99 kg	-59.98 kg

Main features:

- Steel construction
- Operator's keypad
- Stainless steel load receptor
- Pole-mounted display
- 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
- Counting / check weighing / weighing unstable samples modes (DB-II Model)
- Price-computing (EB Model)

Alternatives:

Having the instrument designated the EBI. The EBI comprises an EB model indicator connected to a platform to form a non-automatic weighing instrument designated the EBI. Similarly, having the instrument designated the DBI. The DBI comprises a DB-II model indicator connected to a platform to form a non-automatic weighing instrument designated the DBI.

The EB and DB-II model indicators have the following technical characteristics:

Maximum number of scale intervals	3000	6000
Load cell excitation voltage	5 V DC	5 V DC
Minimum load cell impedance	350 Ω	350 Ω
Maximum load cell impedance	1000 Ω	1000 Ω
Minimum input voltage per verification scale interval	1.2 μ V	1.2 μ V
Measuring range minimum voltage	3.6 mV	7.2 mV
Measuring range maximum voltage	10 mV	10 mV
Fraction of maximum permissible error	0.5	0.5
Operating temperature range	-10°C ~ 40°C	-10°C ~ 40°C
Load cell cable length (junction box to indicator)	3 m	3 m

Any compatible load cell may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation.

The instruments may be designated as follows:

DB-II, alternative designation DB⁺-II

DB-II, alternative designation DB-II PLUS

DB-1H, alternative designation DB⁺-1H

DB-1H, alternative designation DB-1H PLUS

Important note: Apart from the mention of the certificate's 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.