



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

OIML Certificate No
R60/2000-GB1-06.03

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**
Address: **Stanton Avenue
Teddington
Middlesex, TW11 0JZ
United Kingdom**

Person responsible: **Richard Sanders – Services Director**

Applicant

Name: **CAS Corporation**
Address: **#19 Ganap-ri
Gwangjuk-Myoun
Yangju-Si
Gyeonggi-Do 482-841
Rep. of Korea**

Manufacturer of the certified pattern is:

**The applicant &
Shanghai CAS Electronics Co., Ltd,
Maixinroad 448, Xinqiaozhen, Songjiangqu,
Shanghai, China**

Identification of the certified pattern:

Aluminium compression (beam) strain gauge load cell

| | | | | | |
|---|---|------|--------|-------|--------|
| Model Designation | BCW-xxL (where xx denotes maximum capacity) | | | | |
| Maximum capacity, E_{\max} | 60 kg | 70kg | 150 kg | 180kg | 200 kg |
| Accuracy class | C | | | | |
| Humidity class | CH | | | | |
| Maximum number of load cell intervals, n_{\max} | 3000 | | | | |
| Minimum verification interval, V_{\min} | $E_{\max} / 7500$ | | | | |
| Apportionment factor; p_{LC} | 0.7 | | | | |

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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):

R 60 *Metrological regulation for load cells* Edition: 2000 (E) for accuracy class : C3

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 test report: N° SN0990 which includes 23 pages.

Issuing authority



Mr R P Sanders
for NWML

CIML member



Dr J W Llewellyn

Date 08 December 2006

Ref: T1136/0015

Table 1: Essential technical data

| <i>Model designation</i> | <i>Designation</i> | <i>Value</i> | <i>Units</i> |
|--|-----------------------|-------------------------------|--------------|
| Classification | | C3 | |
| Additional marking | | - | |
| Maximum number of load cell verification intervals | n_{LC} | 3000 | |
| Maximum capacity | E_{max} | 60, 70, 150, 180, 200 | kg |
| Minimum dead load, relative | E_{min}/E_{max} | - | % |
| Relative V_{min} (ratio to minimum LC verification interval) | $Y = E_{max}/V_{min}$ | 7500 | |
| Relative DR (ratio to minimum dead load output return) | $Z = E_{max}/(2*DR)$ | 5000 | |
| Rated output | | 1.5 | mV/V |
| Maximum excitation voltage | | 15 | V dc |
| Input impedance (for strain gauge LCs) | R_{LC} | 350 | Ω |
| Temperature rating | | -10/+40 | $^{\circ}C$ |
| Safe overload, relative | E_{lim}/E_{max} | 150 | % |
| Cable length | | 1.5 | m |
| Additional characteristics | | 4- or 6-wire (plus screen) | |

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