

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

OIML Certificate No
R60/2000-GB1-06.04
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**
Person responsible: **Paul Dixon – Certification Services Director**
Applicant: **CAS Corporation
#19 Ganap-ri
Gwangjuk-Myoun)
Yangju-Si
Gyeonggi-Do 482-841
Rep.of Korea**
Manufacturer: **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**

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 R60 *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.

This revision replaces previous versions of the certificate.

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.

Issue Date: 15 October 2014
Reference No: TS13/0021



Signatory: P R Dixon

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The conformity was established by tests described in the associated test report: N° SN991 revision 1 which includes 23 pages.

Identification details of the certified pattern:

Model designation	BCO-XXL (where xx denotes maximum capacity)				
Maximum Capacity (E_{max})	60 kg	70 kg	150 kg	180 kg	200 kg
Accuracy Class	C3				
Humidity class	CH				
Maximum number of load cell intervals (n_{max})	3000				
Minimum verification interval (V_{min})	$E_{max} / 7500$				
Apportionment factor; p_{LC}	0.75				

Characteristics of the Load Cell

Model designation	BCO-XXL (where xx denotes maximum capacity)		
	Designation	Value	Units
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)	$Z = E_{max}/(2*DR)$	12500	
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	%
Fraction	P_{LC}	0.75	
Cable length		1.5	m
Additional characteristics		4- or 6- wire (plus screen)	

Certificate History

Issue №.	Date	Description
R60/2000-GB1-06.04	08 December 2006	Certificate first issued
R60/2000-GB1-06.04 Revision 1	15 October 2014	Revision 1 issued. p_{LC} changed from 0.7 to 0.75