

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

OIML Certificate No  
R60/2000-GB1-17.14  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**  
Person responsible: **Mannie Panesar – Head of Technical Services**  
Applicant: **CARDINAL SCALE MANUFACTURING COMPANY  
203 EAST DAUGHERTY STREET  
WEBB CITY, MISSOURI  
MO 64870  
USA**  
Manufacturer: **The applicant**  
Identification of the certified pattern: **HSB (stainless steel) and HAB (alloy steel)**

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 - 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.

Important note: Apart from the mention of the certificate 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: 06 September 2017**



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



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The conformity was established by testing and examinations described in the associated test reports:

TEST REPORT NUMBER	DATE ISSUED	NUMBER OF PAGES	ISSUING AUTHORITY
09/34513868	05/11/2009	29	LGAI / Applus
12/34536198-L	16/11/2012	29	LGAI / Applus
16/34551229-L	03/02/2017	30	LGAI / Applus

**Characteristics of the Load Cell:**

Model designation	Designation	Value				Units
Classification		C3				
Additional marking		CH				
Maximum number of load cell verification intervals	$n_{LC}$	3,000				
Maximum capacity	$E_{max}$	300 – 4,000	4,000 – 10,000			kg
Minimum dead load, relative	$E_{min}/E_{max}$	0				%
Relative $V_{min}$ (ratio to minimum load cell verification interval)	$Y = E_{max}/V_{min}$	10,000	10,000 or 20,000			
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	3,000	3,000 or 6,000			
Rated output		2.0				mV/V
Maximum excitation voltage		15				V DC
Input impedance (for strain gauge load cells)	$R_{LC}$	$400 \pm 20$	$1150 \pm 100$	$400 \pm 20$	$1150 \pm 100$	$\Omega$
Temperature rating		-10 to +40				$^{\circ}C$
Apportionment factor	$P_{LC}$	0.7				
Safe overload, relative	$E_{lim}/E_{max}$	200				%
Cable length		$\leq 5$	$\leq 12$			m
Additional characteristics		4-wire ( $\leq 0.4 \text{ mm}^2$ in section) or 6-wire shielded, with the shielding not connected to the load cell,				
Constructive material		HSB: Stainless steel HAB: Alloy Steel				

Load cell type HSB and HAB can have other maximum capacities from 300 kg to 10000 kg, respecting always its metrological and constructive characteristics, according to OIML R60 (2000).

**CERTIFICATE HISTORY**

ISSUE NO.	DATE	DESCRIPTION
R60/2000-GB1-17.14	14 July 2017	Certificate first issued.
R60/2000-GB1-17.14 Revision 1	06 September 2017	HAB load cell type added (alloy steel).