



**National
Measurement
Office**
Certification

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

OIML Certificate No
R60/2000-GB1-14.02

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Certification Services Director**

Applicant: **SENSOCAR S.A.
C/Geminis 77 – 08228
TERRASSA (BARCELONA)
SPAIN**

Manufacturer: **The applicant**

Identification of the
certified pattern: **Type: CS compression 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 R 60 - Edition 2000(E) for accuracy class: C3↓, C4↓, C5↓ and C6↓

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 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: 16 October 2014
Reference No: TS13/0023

Signatory: P R Dixon

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The NMO is an Executive Agency of the Department for Business, Innovation & Skills



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The conformity was established by tests described in test report 14/34511808-L having 29 pages, issued by LGAI Technological Center, S.A., Campus UAB, 08193 Bellaterra, Spain.

Characteristics of the Load Cell

Model designation	Designation	Value				Units
Classification		C3↓	C4↓	C5↓	C6↓	
Additional marking		---				
Maximum number of load cell verification intervals	n _{LC}	3 000	4000	5000	6000	
Maximum capacity *	E _{max}	10, 20, 30, 40 & 50				t
Minimum dead load, relative	E _{min} /E _{max}	0				%
Relative Vmin (ratio to minimum LC verification interval)	Y = E _{max} /V _{min}	18 000				
Relative DR (ratio to minimum dead load output return)	Z = E _{max} /(2*DR)	10 000				
Rated output		2				mV/V
Reference excitation voltage	V(cc)	10				V DC
Range of excitation voltage		5 to 15				V DC
Input impedance (for strain gauge LCs)	R _{LC}	800				Ω
Input impedance tolerance		±5				Ω
Output impedance		700				Ω
Output impedance tolerance		±3				Ω
Temperature rating		-10 / +40				°C
Apportionment fraction	P _{LC}	0.7				
Safe overload, relative	E _{lim} /E _{max}	150				%
Maximum cable length		20				m
Constructive material	Stainless steel					

*Note: Load cell type CS can have other maximum capacities from 10.000 kg to 50.000 kg, respecting always its metrological and constructive characteristics, according to OIML R60;2000.

Certificate History

Issue №.	Date	Description
R60/2000-GB1-14.02	16 October 2014	Certificate first issued.
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TEST CERTIFICATE

Number E-16.02.C01

LOAD CELL TYPE CS-D

Issued by: LGAI TECHNOLOGICAL CENTER S.A.
Campus de la U.A.B.
Ronda de la Font del Carme, s/n.
E-08193 BELLATERRA SPAIN
Notified Body Number 0370.

In accordance with Paragraph 3.10 of the European Standard "Metrological aspects of non-automatic weighing instruments" EN 45501:2015. The applied error fraction p_{LC} with reference to paragraph 3.10.2.1 of this standard is 0,7. Following paragraph F.2 of annex F of this standard, the tests have been performed according to the OIML International Recommendation, OIML R 60 (2000).

Issued to: SENSOCAR S.A.
Calle Géminis, 77. P.I. Can Perellada..
E-08228 TERRASSA. ESPAÑA.

In respect of: The model of a load cell, with strain gauges, equipped with electronics, composed by modules 2, 3 and 4 in Figure 1 of the UNE-EN 45501 (april 2016), tested as part of a non-automatic weighing instrument.
Manufacturer: SENSOCAR S.A.
Type: CS-D.

Characteristics:

Classification	---	C3 ↕	C4 ↕	C5 ↕	C6 ↕	---
Maximum number of LC verification intervals	n_{LC}	3000	4000	5000	6000	---
Maximum capacity	E_{max}	10 t up to and including 50 t				---
Ratio minimum LC verification interval	$Y = E_{max}/V_{min}$	18000				---
additional marking --	temperature limits -10°C/+40°C	Number of counts for E_{max} 60000	minimum dead load $E_{min} = 0$ kg	safe overload $E_{lim}/E_{max} = 150\%$		

The main characteristics are shown in the descriptive annex, which is an integral part of the test certificate and consists of 8 pages.

The type is described in the submitted technical documentation, identified with number 03/16 (16/34514130-D).

Managing Director
Product Conformity B.U.


Xavier Ruiz Peña
Bellaterra, 05 september 2016.

This document shall not be reproduced except in full, with the annex.
This test certificate refers only to metrological requirements.
This test certificate cannot be used without applicant's authorization.