

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**

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       |
|--|-----------------------|---------------------|------|------|------|-------------|
|  |                       | C3↓                 | C4↓  | C5↓  | C6↓  |             |
| 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 $V_{min}$ (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                 |      |      |      | $\Omega$    |
| Input impedance tolerance                                      |                       | $\pm 5$             |      |      |      | $\Omega$    |
| Output impedance   |                       | 700                 |      |      |      | $\Omega$    |
| Output impedance tolerance                                     |                       | $\pm 3$             |      |      |      | $\Omega$    |
| Temperature rating   |                       | -10 / +40           |      |      |      | $^{\circ}C$ |
| 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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