



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

OIML Certificate No  
R60/2000-GB1-08.01

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

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

Person responsible:

**Paul Dixon – Product Certification Manager**

Applicant

Name: **Gicam S.N.C Di Carrara Danilo & Co**  
Address: **L.go C. Battisti, 9  
P.zza XI Febbraio, 2  
22015 Gravedona (CO)  
Italy**

Manufacturer of the certified pattern is:

**The applicant**

Identification of the certified pattern:

**Stainless steel tension shear beam strain gauge load cell**

|   |                    |     |      |      |      |      |
|---|--------------------|-----|------|------|------|------|
| Model Designation                                 | TS-2               |     |      |      |      |      |
| Maximum capacity, $E_{\max}$                      | 500                | 750 | 1000 | 1500 | 2000 | 2500 |
| Accuracy class                                    | C3                 |     |      |      |      |      |
| Maximum number of load cell intervals, $n_{\max}$ | 3000               |     |      |      |      |      |
| Minimum verification interval, $V_{\min}$         | $E_{\max} / 10000$ |     |      |      |      |      |
| Apportionment factor; $p_{LC}$                    | 0.70               |     |      |      |      |      |

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 reports:                    CEM-IYO-04/0156-5.1                    having 18 pages                    (CEM)

Issuing authority

CIML member




Mr P Dixon  
for NWML

Mr P Mason

Date    14 March 2008  
Ref:    T1136/0028

**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   | $E_{max}$             | 500, 750,<br>1000, 1500,<br>2000, 2500 | kg           |
| Minimum dead load, relative                                    | $E_{min}/E_{max}$     | 0                                      | kg           |
| Relative $V_{min}$ (ratio to minimum LC verification interval) | $Y = E_{max}/V_{min}$ | 10000                                  |              |
| Relative DR (ratio to minimum dead load output return)         | $Z = E_{max}/(2*DR)$  | -                                      |              |
| Rated output   |                       | 2                                      | mV/V         |
| Maximum excitation voltage                                     |                       | 18                                     | V dc         |
| Input impedance (for strain gauge LCs)                         | $R_{LC}$              | $386 \pm 2 \%$                         | $\Omega$     |
| Temperature rating   |                       | -10/+40                                | $^{\circ}C$  |
| Safe overload, relative  | $E_{lim}/E_{max}$     | 125                                    | % F.S        |
| Cable length   |                       | 4                                      | m            |
| Additional characteristics                                     |                       | 6-wire (plus screen)                   |              |

*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.