



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

OIML Certificate No  
R60/2000-GB1-05.01

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

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

Person responsible: **P Dixon – Business Team Manager Type Approval & Test**

Applicant Name: **Gicam S.N.C Di Carrara Danilo & Co**  
Address: **Piazza XI Febbraio, 2**  
**22015 Gravedona (CO)**  
**Italy**

Manufacturer of the certified pattern is:

**The applicant**

Identification of the certified pattern:

**Single-ended shear beam (bending) strain gauge load cell**

Model Designation	TA-2					
Maximum capacity, $E_{\max}$ (kg)	10	15	20	25	30	35
Minimum verification interval, $V_{\min}$ (kg)	0.0013	0.00195	0.0026	0.0033	0.0039	0.0046
Accuracy class	C3					
Maximum number of load cell intervals, $n_{\max}$	3000					
Apportionment factor; $p_{LC}$	0.7					

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: **C**

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 report: TR00338 which includes 24 pages and TR 00339 which includes 26 pages.

The issuing authority

CIML member




Mr P Dixon  
for NWML

Dr J W Llewellyn

Date 04 January 2005

**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	$E_{max}$	10, 15, 20, 25, 30 & 35	kg
Minimum dead load, relative	$E_{min}/E_{max}$	0	%
Relative $V_{min}$ (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	7960	
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	3261	
Rated output		2	mV/V
Maximum excitation voltage		18	V dc
Input impedance (for strain gauge LCs)	$R_{LC}$	386	$\Omega$
Temperature rating		-10/+40	$^{\circ}C$
Safe overload, relative	$E_{lim}/E_{max}$	125	%
Cable length		4	m
Additional characteristics		4 wire + shield	

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.