



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

OIML Certificate No
R60/2000-GB-01.02

OIML CERTIFICATE OF CONFORMITY

Issuing authority

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

Person responsible: **R Sanders – Assistant Director (Type Approvals)**

Applicant

Name: **Group Four Transducers Inc.**
Address: **One Federal Street
Building 102
Springfield
Massachusetts 01105
USA**

Manufacturer of the certified pattern is:

The applicant

Identification of the certified pattern:

Single Ended Beam (bending) strain gauge load cell

Model Designation	G4-TBSP-100 / 250 / 500 / 750 / 1000				
Maximum capacity, E_{max}	45 kg	110 kg	230 kg	340 kg	456 kg
Accuracy class	C3				
Maximum number of load cell intervals, n_{max}	3000				
Minimum verification interval, V_{min}	0.00855 kg	0.0154 kg	0.0322 kg	0.0476 kg	0.06384 kg
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):

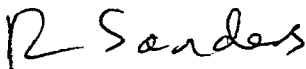
R 60 Metrological regulation for load cells Edition: 2000 (E) for accuracy class : C3

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 report: N° TR 00825 and 00826 which includes 34 pages.

Issuing authority


for NWML

Date 12 December 2001

OIML member


L M Birdseye

Date 12 December 2001

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}	45	110, 230, 340, 456.	kg
Minimum dead load, relative	E_{min}/E_{max}	0		%
Relative V_{min} (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	5263	7142	
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	62.5	110	
Rated output		2		mV/V
Maximum excitation voltage		15		V dc
Input impedance (for strain gauge LCs)	R_{LC}	450		Ω
Temperature rating		-10/+40		$^{\circ}C$
Safe overload, relative	E_{lim}/E_{max}	200		%
Cable length		3		m
Additional characteristics		4 wire + screen.		

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