NATIONAL WEIGHTS AND MEASURES LABORATORY

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

OIML Certificate No
R60/2000-GB1-05.03
Revision 1

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: **Vishay PM Onboard Ltd**

Address: **Airedale House**
Canal Road
Bradford, BD2 1AG
United Kingdom

Manufacturer of the certified pattern is:

The applicant

Identification of the certified pattern:

Single Ended Shear Beam (bending) strain gauge load cell

Model Designation	231600		
Maximum capacity, E_{max}	500 kg	1000 kg*	2000 kg*
Accuracy class	C1.5		
Maximum number of load cell intervals, n_{max}	1500		
Minimum verification interval, V_{min}	0.077 kg	0.15 kg	0.31 kg
Apportionment factor; p_{LC}	0.7		

* these capacities are also manufactured in a “reduced height” version. The “reduced height” load cells have smaller physical dimensions than the standard 231600 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 Certificate No
R60/2000-GB1-05.03
Revision 1

R 60 *Metrological regulation for load cells* **Edition: 2000 (E)** for **accuracy class :** C1.5

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 00423 which includes 26 pages and test report: SN 1065 which includes 21 pages.

This revision replaces previous versions of the certificate.

Issuing authority

Mr P R Dixon
for NWML

CIML member

Mr P E Mason

Date 08 August 2008
Ref: T1136/0021

Table 1: Essential technical data

Model designation	*Designation*	*Value*	*Units*
Classification		C1.5	
Additional marking		-	
Maximum number of load cell verification intervals	n_{LC}	1500	
Maximum capacity	E_{max}	500, 1000, 2000	kg
Minimum dead load, relative	E_{min}/E_{max}	-	%
Relative V_{min} (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	6500	
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	3000	
Rated output		0.8	mV/V
Maximum excitation voltage		15	V dc
Input impedance (for strain gauge LCs)	R_{LC}	380	Ω
Temperature rating		-10/+40	°C
Safe overload, relative	E_{lim}/E_{max}	300	%
Cable length		3	m
Additional characteristics		4 wire + 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.