



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

OIML Certificate No  
R60/2000-GB1-05.03

## 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 – Business Team Manager, Type Approval & Testing.**

Applicant

Name: **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		

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 : 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.

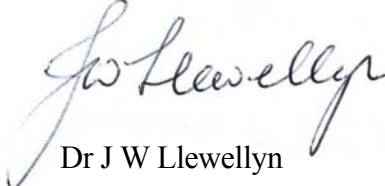
This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated test report: N° TR 00423 which includes 26 pages.

Issuing authority

  
Mr P R Dixon  
for NWML

CIML member

  
Dr J W Llewellyn

Date 23 February 2005

Ref: T0902/0068

**Table 1: Essential technical data**

<i>Model designation</i>	<i>Designation</i>	<i>Value</i>	<i>Units</i>
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	$\Omega$
Temperature rating		-10/+40	$^{\circ}C$
Safe overload, relative	$E_{lim}/E_{max}$	300	%
Cable length		3	m
Additional characteristics		4 wire + screen	

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