



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

OIML Certificate No
R60/2000-GB1-05.04
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 – Business Team Manager, Type Approval & Testing.**

Applicant

Name: **Applied Weighing International Ltd**
Address: **Unit 5 Southview Park
Marsak Street
Caversham
Berkshire
RG4 5AF
United Kingdom**

Manufacturer of the certified pattern is:

The applicant

Identification of the certified pattern:

Stainless steel single ended shear beam (bending) strain gauge load cell

Model Designation	AW420
Maximum capacity, E_{\max}	2000, 2500, 5000, 7500, 10,000 kg
Accuracy class	C3
Maximum number of load cell intervals, n_{\max}	3000
Minimum verification interval, V_{\min}	0.1 kg
Apportionment factor; p_{LC}	0.7

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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 NWML test reports, N° TR: 00461 which includes 17 pages and N° TR: 00495 which includes 22 pages.

Issuing authority

CIML member




Mr P R Dixon
for NWML

Dr J W Llewellyn

Date 19 January 2006
Ref: T1136/0002

Table 1: Essential technical data

<i>Model designation</i>	<i>Designation</i>	<i>Value</i>	<i>Units</i>
Classification		C3	
Additional marking		CH	
Maximum number of load cell verification intervals	n_{LC}	3000	
Maximum capacity	E_{max}	2000, 2500, 5000, 7500, 10000	kg
Minimum dead load, relative	E_{min}/E_{max}	0	%
Relative V_{min} (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	20000	
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	5494	
Rated output		1.61	mV/V
Maximum excitation voltage		15	V dc
Input impedance (for strain gauge LCs)	R_{LC}	389.2	Ω
Temperature rating		-10/+40	$^{\circ}C$
Safe overload, relative	E_{lim}/E_{max}	150	%
Cable length		6	m
Additional characteristics		4 wire + screen	

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