



National
Measurement &
Regulation Office



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

OIML Certificate No
R60/2000-GB1-16.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement and Regulation Office**
Person responsible: **Paul Dixon – Director, Technical Services**
Applicant: **Hanzhong Quanyuan Electronic Co.,Ltd
No 1032, Xinghan Road, Hantai District
Hanzhong, Shaanxi
China**
Manufacturer: **The applicant**
Identification of the certified pattern: **QL-1x family**
(The model names are listed under the characteristics and the capacity of the load cells is in between 40 - 200 kg)

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 R 60 - Edition 2000(E) for accuracy class: [C5]

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.

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.

Issue Date: 22 January 2016
Reference No: TS13/0036

Grégory Glas
Technical Manager - NMRO Technical Services
For and on behalf of the Chief Executive



0135

National Measurement and Regulation Office | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom
Tel +44 (0) 20 8943 7272 | Fax +44 (0) 20 8943 7270 | Web www.gov.uk/nmro
The NMRO is an Executive Agency of the Department for Business Innovation and Skills

The conformity was established by testing and examination described in the associated Test Report SN 1341 which includes 24 pages.

Characteristics of the Load Cell:

Model names: QL-11A, QL-11B-1, QL-11C, QL-11D, QL-11E, QL-11F, QL-11G, QL-12A, QL-12B-1, QL-12B-2, QL-12F, QL-12G, QL-12H, QL-13, QL-15, QL-15A, QL-15B, QL-15C, QL-15D, QL-15E, QL-15F, QL-15G.

Model designation	Designation	Value	Units
Classification		C5	
Additional marking		CH	
Maximum number of load cell verification intervals	n_{LC}	5000	
Maximum capacity	E_{max}	40 - 200	kg
Minimum dead load, relative	E_{min}/E_{max}	0.01	%F.S
Relative V_{min} (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	10000	
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	5000	
Rated output		$2.0 \pm 0.2\%$	mV/V
Maximum excitation voltage		15	V dc
Input impedance (for strain gauge LCs)	R_{LC}	406 ± 6	Ω
Temperature rating		-10 to +40	$^{\circ}C$
Safe overload, relative	E_{lim}/E_{max}	120	% F.S
Fraction	P_{LC}	0.7	
Cable length		4 wires Length: 0.45 m Diameter: 4 ± 0.2 mm	
Additional characteristics		N/A	

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R60/2000-GB1-16.01	22 January 2016	Certificate first issued.
-	-	No revisions have been issued.