



# OIML Certificate of Conformity

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-17.67 revision 1  
Project number 1901492  
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Zhonghang Electronic Measuring Instruments Co., Ltd (ZEMIC) Xinyuan Rd. North Zone of EDZ, Hanzhong 723000, Shaanxi China
Identification of the certified type	A <b>single point load cell</b> , with strain gauges Type : L6G
Characteristics	See next page

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 60** - Edition 2000 (E) for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
27 November 2017

  
C. Oosterman  
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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)



The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. NMI-1901492-01 revision 1 dated 24 November 2017 that includes 51 pages;
- No. NMI-1901492-02 revision 1 dated 24 November 2017 that includes 46 pages.

**Characteristics of the load cell:**

Maximum capacity ( $E_{max}$ )	50 kg up to 300 kg	300 kg up to and including 1000 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000	4000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	16000	11000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	3000	10000
Input impedance	406 $\Omega \pm 6 \Omega$	
Temperature range	-10 °C / + 40 °C	
Fraction $p_{LC}$	0,7	
Humidity Class	CH	
Safe overload	150 % of $E_{max}$	
Output impedance	350 $\Omega \pm 3,5 \Omega$	
Recommended excitation	5 - 12 V AC / DC	
Excitation maximum	18 V AC / DC	
Transducer material	Aluminium alloy	
Atmospheric protection	IP65	

Remarks:

1. The characteristics for  $n_{max}$ , Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the MAA Declaration of Mutual Confidence:

- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.



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## Revision History

This revision replaces the previous version(s).

Revision	Date	Change(s)
Initial	20 November 2017	-
1	27 November 2017	Changes in the documentation folder and change of the identification of the certified type (single point load cell).