

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-13.23  
Project number 13200254  
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|                                      |  |
|--------------------------------------|--|
| Issuing authority                    | NMi Certin B.V.<br>Person responsible: C. Oosterman  |
| Applicant and Manufacturer           | Zhonghang Electronic Measuring Instruments Co., Ltd.(ZEMIC)<br>XinYuan Rd. North Zone of EDZ, Hanzhong,<br>723000 Shaanxi, China |
| Identification of the certified type | A <b>single point load cell</b> , with strain gauges<br>Type : L6P1-Cx-xx-xx-xx Series   |
| 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 R60** - 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.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
8 October 2013



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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.

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Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see [www.nmi.nl](http://www.nmi.nl)).



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

- No. NMI-13200254-04 dated 30 September 2013 that includes 51 pages.

**Characteristics of the load cell:**

|  |                                     |
|--|-------------------------------------|
| Maximum capacity ( $E_{max}$ )                                       | 7,5 kg up to and including 37,5 kg  |
| Minimum dead load  | 0 kg                                |
| Accuracy Class   | C                                   |
| Rated Output   | 1,0 mV/V $\pm$ 0,1 mV/V             |
| Maximum number of load cell intervals (n)                            | 3000                                |
| Ratio of minimum LC Verification interval<br>$Y = E_{max} / V_{min}$ | 10000                               |
| Ratio of minimum dead load output return<br>$Z = E_{max} / (2 * DR)$ | 3000                                |
| Input impedance  | 1065 $\Omega \pm$ 15 $\Omega$       |
| Temperature range  | -10 $^{\circ}$ C / +40 $^{\circ}$ C |
| Fraction $p_{LC}$  | 0,7                                 |
| Humidity Class   | CH                                  |
| Safe overload  | 150% of $E_{max}$                   |
| Output impedance   | 1000 $\Omega \pm$ 10 $\Omega$       |
| Recommended excitation   | 5 - 12 V AC/DC                      |
| Excitation maximum   | 18 V AC/DC                          |
| Transducer material  | Aluminium alloy                     |
| Atmospheric protection   | Silicone sealing                    |

The characteristics for  $n_{max}$  and Y can be reduced separately. Z is proportional or equal to  $n_{max}$ .

Each produced load cell 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) has 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.