



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.44 revision 0
Project number 4020720
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Zhonghang Electronic Measuring Instruments (Xi'an) Co., Ltd.
No.166, WestAve, Hi-tech District
Xi'an, Shaanxi
China

Identification of the
certified type

A **single point load cell**, with strain gauges
Registered trade name : ZEMIC
Type : L6E3-xx-xxx-xxx-xx -R1 Series

Characteristics

See next page

This OIML Certificate is issued under scheme A.

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 60-1:2021 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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
30 December 2025

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. R60/2000-NL1-10.21 dated 10 November 2010 that includes 64 pages;
- No. NMI-10200947-05 dated 24 December 2010 that includes 59 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity ($E_{\max}$)	50 kg up to and including 100 kg	150 kg up to and including 500 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V $\pm$ 0,2 mV/V	
Maximum number of load cell intervals (n) ⁽¹⁾	5000	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	20000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	7000	5500
Input impedance	1065 $\Omega \pm 15 \Omega$	
Temperature range	-10 °C / +40 °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	Aluminum alloy	
Atmospheric protection	Silicon rubber	

Remark:

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.



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Revision History

Revision	Date	Change(s)
0	2025-12-30	Initial issue.