



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.42 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 : L6E-xx-xx-xxx-XX – 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.

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
30 December 2025

Certification Board

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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

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-NL1-10.22A dated 10 November 2010 that includes 64 pages;
- No. R60/2000-NL1-10.22B dated 10 November 2010 that includes 63 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					
Humidity class	CH					
Fraction p_{lc}	0,7					
Temperature range	-10 °C / +40 °C					
Rated Output	2 mV/V \pm 0,2 mV/V					
Accuracy class	C3	C4	C5	C3	C4	C5
Maximum number of load cell intervals (n) ⁽¹⁾	3000	4000	5000	3000	4000	5000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	10000	15000	20000	10000	15000	20000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	4200	6000	7000	3300	4400	5500
Safe overload	150% of E_{\max}					
Input impedance	406 $\Omega \pm 6 \Omega$					
Output impedance	350 $\Omega \pm 3 \Omega$					
Recommended excitation	5 - 12 V AC / DC					
Excitation maximum	18 V AC / DC					
Transducer material	Aluminium 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.

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 Utilizer Declaration:



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- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.

Revision History

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