



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.32 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 **bending beam or shear beam load cell**, with strain gauges
Registered trade name : ZEMIC
Type : H8C -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.

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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. NMI-11200684-06 dated 24 October 2011 that includes 65 pages;
- No. NMI-11200684-07 dated 24 October 2011 that includes 61 pages;
- No. NMI-11200684-08 dated 24 October 2011 that includes 61 pages;
- No. NMI-12200100-02 dated 25 April 2012 that includes 52 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell		
Load cell construction	Bending beam	Shear beam	
Maximum capacity (E_{max})	100 kg up to and including 250 kg	500 kg up to and including 2500 kg	3000 kg up to and including 15000 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2.0mV/V \pm 0.002mV/V or 2.0mV/V \pm 0.02mV/V or 3.0mV/V \pm 0.003mV/V or 3.0mV/V \pm 0.02mV/V		
Maximum number of load cell intervals (n) ⁽¹⁾	5000		
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$	20000	20000	18000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	5000		
Input impedance	350 $\Omega \pm 3,5 \Omega$		
Temperature range	-10 °C / +40 °C		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150 % of E_{max}		
Output impedance	351 $\Omega \pm 2 \Omega$		
Recommended excitation	5-12 V AC / DC		
Excitation maximum	18 V AC / DC		
Transducer material	Alloy steel		
Atmospheric protection	Silicon rubber		

Remark:

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



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

Revision History

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