



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.23 revision 0
Project number 4020720
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant Zemic Europe B.V.
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The Netherlands

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 **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : ZEMIC
Type : BM14G4

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

- No. R60/2000-NL1-10.10 dated 20 August 2010 that includes 64 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	10 t up to and including 50 t
Minimum dead load	0 t
Accuracy Class	C
Rated Output	2,0 mV/V \pm 0,002 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	8800
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	4000
Input impedance	700 Ω \pm 3 Ω
Temperature range	-10 °C / +40°C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	703 Ω \pm 4 Ω
Recommended excitation	5-12 V AC / DC
Excitation maximum	18 V AC / DC
Transducer material	Stainless steel
Atmospheric protection	Stainless steel welded

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.

Revision History

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