



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-25.36 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 **S-beam compression load cell**, with strain gauges  
Registered trade name : ZEMIC  
Type : HM3Q-Cx-xt-xx x-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](http://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 report:

- No. NMI-12200100-03 dated 25 April 2012 that includes 52 pages.

## Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity ( $E_{\max}$ )	6 t up to and including 30 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) <sup>(1)</sup>	4000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{\max} / v_{\min}$	20000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{\max} / (2 * DR)$	5000
Input impedance	1000 $\Omega \pm 10 \Omega$
Temperature range	-10 °C / +40 °C
Fraction $p_{LC}$	0,7
Humidity Class	CH
Safe overload	150 % of $E_{\max}$
Output impedance	1004 $\Omega \pm 5 \Omega$
Recommended excitation	5-12 V AC / DC
Excitation maximum	18 V AC / DC
Transducer material	Alloy steel
Atmospheric protection	Hermetically 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.