OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.27 revision 0
Project number 4020720

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 and shear beam load cell**, with strain gauges Registered trade name : ZEMIC Type : BM8D-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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The conformity was established by the results of tests and examinations provided in the associated reports:
- No. NMi-10200947-09 dated 24 December 2010 that includes 59 pages;
- No. NMi-11200684-05 dated 24 October 2011 that includes 65 pages;
- No. NMi-12200100-01 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})	150 kg up to and including 300 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	2,0 mV/V ± 0,04 mV/V or 3,0 mV/V ± 0,08 mV/V		
Maximum number of load cell intervals (n) (1)	3000	6000	5000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	15000	20000	20000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	3000	6000	5000
Input impedance	350 Ω ± 3,5 Ω		
Temperature range	-10 °C / +40°C		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150 % of E_{max}		
Output impedance	350 Ω ± 3,5 Ω		
Recommended excitation	5-12 V AC / DC		
Excitation maximum	18 V AC / DC		
Transducer material	Stainless 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.

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Revision History

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