OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.12 revision 0
Project number 3536114

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	Zhonghang Electronic Measuring Instruments Co. Ltd. Xinyuan Road, north part of EDZ Hanzhong, 723000 Shaanxi China
Identification of the certified type	A **compression load cell**, with strain gauges. Registered trade name : ZEMIC Type : BM6G-W3
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 60-1:2017 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.

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 Reports is not permitted, although either may be reproduced in full.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
17 April 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Reports:
- No. NMi-3536114-01 dated 17 April 2023 that includes 51 pages;
- No. NMi-3536114-02 dated 17 April 2023 that includes 47 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	10 kg up to and including 250 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V ± 0,2 mV/V
Maximum number of load cell intervals (n) (1)	6000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	45000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	7500
Input impedance	380 Ω ± 15 Ω
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0.7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	351 Ω ± 3.5 Ω
Recommended excitation	5 ~12 VDC
Excitation maximum	18 VDC
Transducer material	Stainless Steel
Atmospheric protection	Hermetically welded

Remarks:
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 samples identified in the OIML Test Reports) 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:
- 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.

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Revision History

Revision	Date	Change(s)
0	2023-04-17	Initial issue.