



OIML Certificate

OIML Member State The Netherlands



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Issuing authority NMi Certin B.V.

Person responsible: M.Ph.D. Schmidt

Applicant and Zhonghang Electronic Measuring Instruments Co. Ltd. Manufacturer

Xinyuan Road, north part of EDZ Hanzhong

723000, Hanzhong, Shaanxi

China

Identification of the

certified type

A shear beam load cell, with strain gauges. Registered trade name

BM8D-W16 Type

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.

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 9 July 2024



Certification Board

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

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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-3765900-01 dated 9 July 2024 that includes 97 pages.

Characteristics of the load cell:

| Characterization of load cell capabilities | Analog-passive load cell | |
|--|------------------------------------|--|
| Maximum capacity (E _{max}) | 500 kg up to and including 2500 kg | |
| Minimum dead load | 0 kg | |
| Accuracy Class | С | |
| Rated Output | 2 mV/V ± 0,2 mV/V | |
| Maximum number of load cell intervals (n) (1) | 8000 | |
| Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$ | 20000 | |
| Ratio of minimum dead load output return (1) 8000 $Z = E_{max} / (2 * DR)$ | | |
| Input impedance | 384 Ω ± 10 Ω | |
| Temperature range 🕛 | -10 °C / +40 °C | |
| Fraction p _{LC} | 0,7 | |
| Humidity Class | СН | |
| Safe overload | 150 % of E _{max} | |
| Output impedance | $350 \Omega \pm 2\Omega$ | |
| 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.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) 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 | 2024-07-09 | Initial issue. |









