

OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.34 revision 0
Project number 3817525
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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.
Xinyuan Road, north part of EDZ Hanzhong
723000, Hanzhong, Shaanxi
China

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : ZEMIC
Type : DHM14Hx

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
30 December 2024

Certification Board

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

- No. NMI-3817525-01 dated 30 December 2024 that includes 95 pages.

Characteristics of the load cell:

| | |
|---|---------------------------------------|
| Characterization of load cell capabilities | Digital load cell |
| Maximum capacity (E_{max}) | 10 t up to and including 50 t |
| Minimum dead load | 0 kg |
| Accuracy Class | C |
| Maximum number of load cell intervals (n) ⁽¹⁾ | 4000 |
| Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$ | 20000 |
| Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$ | 4000 |
| Temperature range | -10 °C / + 40 °C |
| Fraction p_{LC} | 0,7 |
| Humidity Class | CH |
| Safe overload | 150 % of E_{max} |
| Recommended excitation | 12 V DC |
| Excitation maximum | 15 V DC |
| Transducer material | Alloy steel |
| Atmospheric protection | Hermetically welded |
| Electromagnetic environment class | E2 |
| Number of counts for E_{max} | $300000 \geq Y * 5 / p_{LC}$ |
| Software identification | Version number: 6.0 Checksum: 8FBF |

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 | 2024-12-30 | Initial issue. |