



OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-22.07 revision 0
Project number 2484890
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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
Hanzhong
China

Identification of the certified type A **shear beam load cell**, with strain gauges.
Registered trade name : Zhonghang Electronic Measuring Instruments Co. Ltd.
Type : HM9B

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 - Edition 2017 (E) 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**
23 May 2022

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Report:

- No. NMI-2484890-01 dated 20 May 2022 that includes 29 pages;
- No. NMI-2484890-02 dated 20 May 2022 that includes 35 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	10000 kg up to and including 50000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	7500
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3000
Input impedance	700 $\Omega \pm 7 \Omega$
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	703 $\Omega \pm 4 \Omega$
Recommended excitation	5-12 V AC / DC
Excitation maximum	18 V AC / DC
Transducer material	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 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	Date	Description of the modification
Initial	23 May 2022	Initial approval