

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-22.10  
Project number 2560247  
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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  
China

Identification of the  
certified type

A **single point load cell**, with strain gauges.

Registered trade name : ZEMIC

Type : L6N

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.

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Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
4 March 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 Reports:

- No. NMI-2560247-01 dated 2 March 2022 that includes 51 pages;
- No. NMI-2560247-02 dated 2 March 2022 that includes 46 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity ( $E_{max}$ )	3 kg up to 20 kg	20 kg up to and including 100 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V $\pm$ 0,2 mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	5000	3000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	14000	30000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	18000	11000
Input impedance	406 $\Omega$ $\pm$ 6 $\Omega$	
Temperature range	-10 °C / + 40 °C	
Fraction $p_{LC}$	0,7	
Humidity Class	CH	
Safe overload	150 % of $E_{max}$	
Output impedance	350 $\Omega$ $\pm$ 3 $\Omega$	
Recommended excitation	10 V AC/DC	
Excitation maximum	18 V AC/DC	
Transducer material	Aluminium	
Atmospheric protection	Silicone rubber	

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.