



# OIML Certificate

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Project number 2227635  
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**OIML Member State**  
The Netherlands

Issuing authority NMI Certin B.V.  
Person responsible: C. Oosterman

Applicant and Manufacturer Beijing True-Tec Co., Ltd.  
4/, Bldg. 2, No 8 Hong Da Bei Lu, BDA  
Beijing 100176  
China

Identification of the certified type A **bending beam load cell**, with strain gauges.  
Registered trade name : Beijing True-Tec Co., Ltd.  
Type : PA10, PA12 and PA14L

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**  
24 September 2019

  
C. Oosterman  
Head Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Test Reports:

- No. NMI-11200655-02 dated 10 April 2013 that includes 24 pages;
- No. NMI-2227635-01 dated 24 September 2019 that includes 51 pages;
- No. NMI-2227635-02 dated 24 September 2019 that includes 46 pages.

**Characteristics of the load cell:**

Characterization of load cell capabilities	Analog-passive load cell		
Load cell designation	PA10 and PA12		PA14L
Maximum capacity ( $E_{max}$ )	50 kg up to 250 kg	250 kg up to and including 635 kg	50 kg up to and including 635 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>	6000	8000	5000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	20000	17000	15000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	8000	16000	5400
Input impedance	406 $\Omega \pm 15 \Omega$		
Temperature range	-10 °C / + 40 °C		
Fraction $p_{LC}$	0,7		
Humidity Class	CH		
Safe overload	200 % of $E_{max}$		
Output impedance	350 $\Omega \pm 3 \Omega$		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 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.



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## Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
Initial	24-09-2019	-
1	25-09-2019	Repair of typo.