

OIML Certificate

Number R60/2017-A-NL1-19.25 revision 1 Project number 2227635

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OIML Member StateThe 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

25 September 2019

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C. Oosterman Head Certification Board

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

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org







NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands T +31 88 6362332 certin@nmi.nl

www.nmi.nl





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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 a | 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 | С | | |
| Rated Output | 2,0 mV/V± 0,2 mV/V | | |
| Maximum number of load cell intervals (n) (1) | 6000 | 8000 | 5000 |
| Ratio of minimum LC Verification interval $^{(1)}$ Y = E_{max} / v_{min} | 20000 | 17000 | 15000 |
| Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$ | 8000 | 16000 | 5400 |
| Input impedance | 406 Ω ± 15 Ω | | |
| Temperature range | -10 °C / + 40 °C | | |
| Fraction p _{LC} | 0,7 | | |
| Humidity Class | СН | | |
| Safe overload | 200 % of E _{max} | | |
| Output impedance | 350 Ω ± 3 Ω | | |
| 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.





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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.

Revision History

This revision replaces the previous version.

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









