# OIML Certificate

**OIML Member State**
The Netherlands

Number R60/2017-A-NL1-22.28 revision 0
Project number 3520965


| | |
|---|---|
| Issuing authority | NMi Certin B.V.<br>Person responsible: M.Ph.D. Schmidt |
| Applicant and Manufacturer | Xiamen Loadcell Technology Co., Ltd. (LCT)<br>5FL, No. 20, Huli Park, Tongan Industry Central Zone<br>361100 Xiamen<br>China |
| Identification of the certified type | A **single point load cell**, with strain gauges.<br>Registered trade name : LCT<br>Type : LAE, LAE-XXXX-XX-XX-XX series |
| 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.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**
24 August 2022

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Reports:
- No. R60/2000-NL1-10.06 dated 17 May 2010 that includes 40 pages;
- No. NMi-3520965-01 dated 24 August 2022 that includes 51 pages;
- No. NMi-3520965-02 dated 24 August 2022 that includes 46 pages.

**Characteristics of the load cell:**

| | | |
|---|---|---|
| Characterization of load cell capabilities | Analog-passive load cell | |
| Maximum capacity ($E_{max}$) | 25 kg up to 100 kg | 100 kg up to and including 500 kg |
| Minimum dead load | 0 kg | |
| Accuracy Class | C | |
| Rated Output | 2,0 mV/V ±10% | |
| Maximum number of load cell intervals (n) (1) | 4000 | 6000 |
| Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$ | 12000 | 15000 |
| Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$ | 5000 | 10000 |
| Input impedance | 405 Ω ± 10 Ω | |
| Temperature range | -10 °C / +40 °C | |
| Fraction $p_{LC}$ | 0,7 | |
| Humidity Class | CH | |
| Safe overload | 150 % of $E_{max}$ | |
| Output impedance | 350 Ω ± 5 Ω | |
| Recommended excitation | 5-12 V AC / DC | |
| Excitation maximum | 18 V AC / DC | |
| Transducer material | Aluminium alloy | |
| Atmospheric protection | Silicone rubber coating | |

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.

**Revision History**

| Revision | Date | Changes |
|---|---|---|
| 0 | 2022-08-24 | Initial issue. |