



OIML Certificate

OIML Member State The Netherlands



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Issuing authority NMi Certin B.V.

Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer

Locosc Ningbo precision technology Co., Ltd.

No.137, ZhenYong Road Ningbo, Zhejiang province

China

Identification of the

certified type

A shear beam load cell, with strain gauges.

Registered trade name Locosc

Type LP7110

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 60-1:2021 for accuracy class C

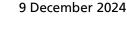
This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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



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

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.















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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMi-11200482-01 revision 1 dated 5 October 2017 that includes 51 pages;
- No. NMi-3626916-01 dated 9 December 2024 that includes 51 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E _{max})	500 kg up to and including 10000 kg	
Minimum dead load	10 kg	
Accuracy Class	C	
Rated Output	2 mV/V or 3 mV/V	
Maximum number of load cell intervals (n) (1)	3000	
Ratio of minimum LC Verification interval $^{(1)}$ Y = E_{max} / v_{min}	10000	
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	3000	
Input impedance	385 Ω ± 10 Ω	
Temperature range	-10 °C / +40 °C	
Fraction p _{LC}	0,7	
Humidity Class	СН	
Safe overload	150 % of E _{max}	
Output impedance	350 Ω ± 3 Ω	
Recommended excitation	5 - 12 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Alloy steel or stainless steel	
Atmospheric protection	Silicon rubber	

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 History

Revision	Date	Change(s)
0	2024-12-09	Initial issue.









