



OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-24.05 revision 0
Project number 3730624
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Laboratorio Metrologico LCD srl
Via Gen. Nastri, 23
84084 Fisciano (SA)
Italy

Identification of the
certified type

A **compression load cell**, with strain gauges.
Type : GCS 25

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
21 March 2024

Certification Board

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

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

- No. NMI-12200513-03 dated 10 January 2013 that includes 51 pages;
- No. NMI-14200272-08 dated 11 September 2014 that includes 13 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{\max})	10000 kg up to and including 50000 kg
Minimum dead load	2 kg
Accuracy Class	C
Rated Output	2 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	20000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	5128
Input impedance	$760 \Omega \pm 10 \Omega$
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	120 % of E_{\max}
Output impedance	$700 \Omega \pm 5 \Omega$
Recommended excitation	10 V DC
Excitation maximum	15 V DC
Transducer material	stainless steel
Atmospheric protection	IP68, hermitical sealed

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 MAA Declaration of Mutual Confidence:

- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.



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Revision History

Revision	Date	Change(s)
0	2024-03-21	Initial issue.