

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.23 revision 0
Project number 3512445
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Issuing authority

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

Applicant and
Manufacturer

Mettler-Toledo GmbH
Im Langacher 44
CH-8606 Greifensee
Switzerland

Identification of the
certified type

A **single point load cell**, with strain gauges, equipped with electronics.
Registered trade name : Mettler-Toledo
Type : SLP33xD-RTU, SLP33xD-IOL (x=1,2,3)

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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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
10 August 2023

Certification Board

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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

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.



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

- No. NMI-11200209-02 Revision 1 dated 28 April 2014 that includes 49 pages;
- No. NMI-3512445-01 dated 10 August 2023 that includes 63 pages;
- No. NMI-3512445-02 dated 10 August 2023 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities		Digital load cell with data processing
Maximum capacity (E_{max})		5 kg up to and including 500 kg
Minimum dead load		0 kg
Accuracy Class		C
Maximum number of load cell intervals (n) ⁽¹⁾		6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$		25000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$		6000
Fraction p_{LC}		0,8
Humidity Class		CH
Safe overload		150 % of E_{max}
Recommended excitation		12 - 24 V DC
Excitation maximum		30 V DC
Transducer material		Aluminium
Atmospheric protection		Silicon rubber
Electromagnetic environment class		E2
Number of counts for E_{max}		$\geq Y * 5 / p_{LC}$
Software identification		As described in the Mettler-Toledo Rainbow software certificate TC8039
Data transmission	interface and data protocol	MT-SCIS Level 0_1
	filtering	adaptive
	sample frequency	366,21 Hz

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

Revision	Date	Change(s)
0	2023-08-10	Initial issue.