

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.32 revision 0
Project number 3747976
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Issuing authority

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

Applicant and
Manufacturer

Mettler Toledo, LLC
1150 Dearborn Drive
Worthington, OH 43805
United States of America

Identification of the
certified type

A **compression load cell**, with strain gauges.
Registered trade name : Mettler Toledo
Type : 61037713, 61038019, 61036052,
61037137, 61037854, 61038020,
61038876, 61038021, 61037497,
61038948, 61037496

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
20 November 2023

Certification Board

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

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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-2402506-01 dated 27 May 2021 that includes 74 pages;
- No. NMI-2402506-02 dated 27 May 2021 that includes 68 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	250 kg up to 2000 kg	2000 kg up to and including 10000 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V \pm 0,1 mV/V or 1,75 \pm 0,1 mV/V (for 250 kg sample)	
Maximum number of load cell intervals (n) ⁽¹⁾	4000	6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	10000	20000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	11000	
Input impedance	1110 $\Omega \pm 50 \Omega$ Or 1100 $\Omega \pm 50 \Omega$ (for the 250 kg and 10000 kg samples only)	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	1025 $\Omega \pm 25 \Omega$ or 1025 $\Omega \pm 50 \Omega$ (for the 250 kg and 10000 kg samples only)	
Recommended excitation	10 V AC / DC	
Excitation maximum	30 V AC / DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically welded	

Remarks:

1. The characteristics for n_{max} , Y and Z can be reduced separately.



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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.

Revision History

Revision	Date	Change(s)
0	2023-11-20	Initial issue.