OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.32 revision 1
Project number 3747976

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 : RLC
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
23 November 2023

Certification Board

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

OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.32 revision 1
Project number 3747976

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 ± 0,1 mV/V or 1,75 ± 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 Ω ± 50 Ω Or 1100 Ω ± 50 Ω (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 Ω ± 25 Ω or 1025 Ω ±50 Ω (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.

OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.32 revision 1
Project number 3747976

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.
1	2023-11-23	Correcting type name