OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-23.29 revision 0
Project number 3717528

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant	Mettler-Toledo GmbH Im Langacher 44 8606 Greifensee Switzerland
Manufacturer	Mettler-Toledo (Changzhou) Precision Instrument Ltd. No.22, Zhengqiang Road, Xinbei District Changzhou, Jiangsu P.R. China
Identification of the certified type	A **single point load cell**, with strain gauges, equipped with electronics.
	Registered trade name : Mettler-Toledo
	Type : SLP330D, SLP331D, SLP332D
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 60:2000 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
30 October 2023

Certification Board

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

- No. NMi-11200209-01 Revision 1 dated 28 April 2014 that includes 66 pages;
- No. NMi-11200209-02 Revision 1 dated 28 April 2014 that includes 49 pages;
- No. NMi-11200439-04 dated 8 March 2012 that includes 20 pages;
- No. NMi-11200439-07 dated 8 March 2012 that includes 25 pages;
- No. NMi-12200205-01 Revision 1 dated 28 April 2014 that includes 46 pages;
- No. NMi-12200756-01 Revision 1 dated 28 April 2014 that includes 12 pages;
- No. NMi-12200756-02 Revision 1 dated 28 April 2014 that includes 46 pages;
- No. NMi-13200259-01 Revision 1 dated 28 April 2014 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})		5 kg up to 30 kg	30 kg up to 50 kg	50 kg up to and including 100 kg
Minimum dead load		0 kg		
Accuracy Class		C		
Maximum number of load cell intervals (n) (1)		7500	7500	10000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$		25000	50000	50000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$		12400	30000	35000
Temperature range		-10 °C / +40 °C		
Fraction p_{LC}		0,8		
Humidity Class		SH		
Safe overload		150% of E_{max}		
Recommended excitation		5 V DC		
Excitation maximum		5,25 V DC		
Transducer material		Aluminium		
Atmospheric protection		Silicon rubber		
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	2023-10-30	Initial issue.