

OIML Member State
The Netherlands

Number R60/2000-NL1-13.17 revision 1
Project number SO14200804
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant	Mettler-Toledo Heuwinkelstrasse, 8606, Nänikon, Switzerland
Manufacturer	Mettler-Toledo Precision Instruments Co. Ltd. 5 Huashan Road, 213022 Changzhou P.R. China
Identification of the certified type	A single point load cell , with strain gauges, equipped with electronics, Type : SLP330D, SLP331D, SLP332D
Characteristics	See next page

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 R60 - Edition 2000 (E) 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**
20 May 2014



C. Oosterman
Head 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

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see www.nmi.nl).



The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- 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-11200756-01 Revision 1 dated 28 April 2014 that includes 12 pages;
- No. NMI-11200756-02 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)	7500	7500	10000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	25000	50000	50000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	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		
Software identification	As described in TC8039		
Data transmission	interface and data protocol	MT-SCIS Level 0_1	
	filtering	adaptive	
	sample frequency	366,21 Hz	

The characteristics for n_{max} and Y can be reduced separately. Z is proportional or equal to n_{max} .

Each produced load cell is provided with an accompanying document with information about its characteristics.



OIML Certificate of Conformity

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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 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.

Revision History

This revision replaces the previous version(s).

Revision	Date	Change(s)
Initial	16 July 2013	-
1	29 April 2014	Textual changes in six associated test reports. This certificate refers to the revised test reports.