

OIML Member State
The Netherlands

Number R60/2000-NL1-13.19
Project number 13200354
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant	Mettler-Toledo (Changzhou) Precision Instruments Co. Ltd. 5 Huashan Road, 213022 Changzhou, P.R. China
Manufacturer	Mettler-Toledo (Changzhou) Precision Instruments Co. Ltd. 5 Huashan Road, 213022 Changzhou, P.R. China
Identification of the certified type	A bending beam load cell , with strain gauges. Type : SLB215, SLB415
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**
30 July 2013

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).



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

- No. NMI-12200793-01 dated 21 May 2013 that includes 27 pages;
- No. NMI-12200793-02 dated 21 May 2013 that includes 24 pages;
- No. NMI-13200354-01 dated 19 July 2013 that includes 29 pages;
- No. NMI-13200354-02 dated 19 July 2013 that includes 27 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	110 kg up to and including 550 kg	1100 kg up to and including 4400 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	1,0 or 2,0 mV/V	
Maximum number of load cell intervals (n)	3000	
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	11000	21000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000	
Input impedance	$384 \Omega \pm 4 \Omega$	
Temperature range	$-10 \text{ }^\circ\text{C} / +40 \text{ }^\circ\text{C}$	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150% of E_{max}	
Output impedance	$350 \Omega \pm 1 \Omega$	
Recommended excitation	5 - 15 V DC	
Excitation maximum	20 V DC	
Transducer material	Alloy steel	
Atmospheric protection	Hermetically sealed by laser welding	

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.

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.