

OIML Member State
The Netherlands

Number R60/2000-NL1-14.24
Project number SO14203315
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Mettler-Toledo (Changzhou) Precision Instrument Ltd. No.5, Middle Huashan Road, Xinbei District, Changzhou Jiangsu 213122 Peoples Republic of China
Identification of the certified type	A bending beam load cell , with strain gauges. Type : SLP530, SLP532 and SLP533
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**
10 October 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).



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

- No. R60/2000-NL-02.29 dated 17 September 2002 that includes 40 pages;
- No. R60/2000-NL1-03.24 dated 10 March 2003 that includes 37 pages;
- No. R60/2000-NL-02.14A dated 13 May 2002 that includes 40 pages;
- No. R60/2000-NL-02.14B dated 03 May 2002 that includes 37 pages;
- No. R60/2000-NL1-07.15B dated 13 November 2007 that includes 37 pages;
- No. R60/2000-NL-02.12 dated 03 May 2002 that includes 40 pages;
- No. R60/2000-NL1-07.14 dated 13 November 2007 that includes 40 pages;
- No. NMI-SO14203315-01 dated 10 October 2014 that includes 9 pages;
- No. NMI-SO14203315-02 dated 10 October 2014 that includes 9 pages;
- No. NMI-SO14203315-03 dated 10 October 2014 that includes 8 pages;
- No. NMI-SO14203315-04 dated 10 October 2014 that includes 8 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	Type SLP530 6 kg up to 10 kg	Type SLP530 10 kg up to and including 30 kg	Type SLP532 30 kg up to and including 300 kg	Type SLP533 150 kg up to and including 750 kg
Minimum dead load	0 kg			
Accuracy Class	C			
Rated Output	2 mV/V \pm 0,2 mV/V			
Maximum number of load cell intervals (n)	3000		3500	3000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	12000	12000	6500	12000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000	6000	3500	3000
Input impedance	387 Ω \pm 10 Ω			
Temperature range	-10 $^{\circ}$ C / + 40 $^{\circ}$ C			
Fraction p_{LC}	0,7			
Humidity Class	CH			
Safe overload	150 % of E_{max}			
Output impedance	350 Ω \pm 4 Ω			
Recommended excitation	5 - 15 V DC/AC			
Excitation maximum	20 V DC/AC			
Transducer material	Stainless steel			
Atmospheric protection	Silicon rubber			

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.