

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-13.26  
Project number 13200520  
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Hottinger Baldwin Messtechnik GmbH Im Tiefen See 45 D-64293 Darmstadt Germany
Manufacturer	
Identification of the certified type	A <b>double bending beam load cell</b> , with strain gauges Type : TLC, HLC and THC
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**  
23 December 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](http://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](http://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-NL1-04.07A dated 08 June 2004 that includes 40 pages;
- No. R60/2000-NL1-04.07B dated 11 June 2004 that includes 37 pages;
- No. R60/2000-NL1-04.07C dated 07 October 2004 that includes 37 pages;
- No. NMI-13200520-01 dated 19 December 2013 that includes 51 pages.

**Characteristics of the load cell:**

Maximum capacity ( $E_{max}$ )	110, 220, 500, 550, 1000, 1100, 1760, 2000, 2200, 4400 and 10000 kg	110, 220, 500, 550, 1000, 1100, 1760, 2000, 2200, 4400 and 10000 kg	220, 500, 550, 1000, 1100 kg			
Accuracy Class	D	C				
Maximum number of load cell intervals (n)	1000	1000	2000	3000	4000	6000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	3509	7042	10000	10000 or 12000	10000 or 12000	
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	2000	7500				
Minimum dead load	0 kg					
Rated Output	2 mV/V or 1,94 mV/V					
Input impedance	350 $\Omega$ to 480 $\Omega$					
Temperature range	-10 °C / +40 °C					
Fraction $p_{LC}$	0,7					
Humidity Class	CH					
Safe overload	150% of $E_{max}$					
Output impedance	350 $\Omega$					
Recommended excitation	10 V DC/AC					
Excitation maximum	15 V DC/AC					
Transducer material	Stainless Steel					
Atmospheric protection	Viton PVC					

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.