



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2000-A-NL1-18.18  
Project number 2172789  
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant & Manufacturer	Hottinger Baldwin Messtechnik GmbH Im Tiefen See 45 D-64293 Darmstadt Germany
Identification of the certified type	A <b>single point load cell</b> , with strain gauges, equipped with electronics, Type : FIT7
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** - 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 August 2018



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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)



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The conformity was established by the results of tests and examinations provided in the associated OIML Test Reports:

- No. NMI-14200321-01 dated 11 December 2015 that includes 59 pages;
- No. NMI-14200321-02 dated 11 December 2015 that includes 56 pages;
- No. NMI-14200321-03 dated 11 December 2015 that includes 9 pages.

**Characteristics of the load cell:**

Maximum capacity ( $E_{max}$ )	3 kg up to 20 kg	20 kg up to and including 75 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Maximum number of load cell intervals (n)	4000	4000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	20000	35000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	8100	8600
Temperature range	-10 °C / +40 °C	
Fraction $p_{LC}$	0,8	
Humidity Class	CH	
Safe overload	150 % of $E_{max}$	
Recommended excitation	24 V DC	
Excitation maximum	30 V DC	
Transducer material	Stainless steel	
Atmospheric protection	Silicone membrane	
Electromagnetic environment class	E2	
Number of counts for $E_{max}$	$\geq Y * 5 / p_{LC}$	
Software identification	Version number: 80 Checksum: 240413	

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

Each load cell produced 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 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.