



OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-19.04 revision 1
Project number 2234361
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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

Identification of the
certified type

A **single point load cell**, with strain gauges,
Type : PW10...

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
10 May 2019

C. Oosterman
Head Certification Board

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

- No. R60/1991-NL-98.10 dated 10 April 1998 that includes 39 pages;
- No. R60/2000-NL1-05.14A dated 20 September 2005 that includes 36 pages;
- No. NMI-2234361-01 revision 1 dated 10 May 2019 that includes 51 pages;
- No. NMI-2234361-02 revision 1 dated 10 May 2019 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{\max})	50 kg up to 200 kg	200 kg up to and including 300 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V \pm 0,2 mV/V	
Maximum number of load cell intervals (n) ⁽¹⁾	6000	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / V_{\min}$	20000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	15000	17000
Input impedance	400 $\Omega \pm$ 100 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{\max}	
Output impedance	400 $\Omega \pm$ 100 Ω	
Recommended excitation	5 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Aluminium	
Atmospheric protection	IP67	

Remarks:

1. The characteristics for n_{\max} , Y and Z can be reduced separately.

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.



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Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
Initial	4 April 2019	-
1	10 May 2019	Faults in type evaluation reports are corrected. Report NMI-2234361-01 and NMI-2234361-02 are updated in OIML certificate as revision 1.