

OIML Member State

The Netherlands

OIML Certificate



Number R60/2017-A-NL1-21.23 Project number 2602161 Page 1 of 2

lssuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt					
Applicant and Manufacturer	Cardinal Scale Manufactur 102 East Daugherty Street Webb City, MO 64807 United States of America		mpany			
ldentification of the certified type	A shear beam load cell, with strain gauges.					
	Туре		:	HSB, H	AB and T	В
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 2017 (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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Certification Board

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

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.







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Number R60/2017-A-NL1-21.23 Project number 2602161 Page 2 of 2

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

- No. NMi-2445645-01 dated 22 December 2020 that includes 27 pages;
- No. NMi-2445645-02 dated 22 December 2020 that includes 26 pages;
- No. NMi-2445645-03 dated 22 December 2020 that includes 24 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell				
Maximum capacity (E _{max})	300 kg up to and including 5000 kg				
Minimum dead load	0 kg				
Accuracy Class	c				
Rated Output	$2 \text{ mV/V} \pm 0.2 \text{ mV/V}$ or $3 \text{ mV/V} \pm 0.3 \text{ mV/V}$				
Maximum number of load cell intervals (n) $^{(1)}$	3000				
Ratio of minimum LC Verification interval ⁽¹⁾ Y = E_{max} / v_{min}	15000				
Ratio of minimum dead load output return ⁽¹⁾ Z = E_{max} / (2 * DR)	3000				
Input impedance	400 Ω ± 20 Ω				
Temperature range	- 10 °C / + 40 °C				
Fraction p_{LC}	0,7				
Humidity Class	СН				
Safe overload	150 % of E _{max}				
Output impedance	350 Ω ±5 Ω				
Recommended excitation	10 V AC / DC				
Excitation maximum	15 V AC / DC				
Transducer material	Alloy steel or stainless steel				
Atmospheric protection	Silicone sealing or hermetically welded				

Remarks:

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

Each load cell produced is provided with an accompanying document with information about its characteristics.