OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-26.22 revision 0
Project number 4165911

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	Flintec UK Limited Caxton House, Caxton Place CF238HA Cardiff United Kingdom
Identification of the certified type	A **bending beam load cell**, with strain gauges. Registered trade name : Flintec Type : PB
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 60-1:2021 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
27 October 2026

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

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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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The conformity was established by the results of tests and examinations provided in the associated reports:
- No. NMi-2619873-03 revision 1 dated 27 October 2026 that includes 55 pages;
- No. NMi-2619873-05 revision 1 dated 27 October 2026 that includes 46 pages;
- No. NMi-4165911-01 dated 27 October 2026 that includes 46 pages.

Characteristics of the load cell:

The construction of the load cell is recorded in the Documentation folder no. TC12196-1.

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	3,75 kg up to 375 kg	375 kg up to and including 1875 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	0,9 -1,1 mV/V	
Maximum number of load cell intervals (n) (1)	3000	
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	15000	12000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	5000	
Input impedance	1180 Ω ± 50 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	SH	
Safe overload	300 % of E_{max}	
Output impedance	1000 Ω ± 10 Ω	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Aluminium	
Atmospheric protection	Potted with silicone	

Remark:
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.

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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 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.

Revision History

Revision	Date	Change(s)
0	2026-10-27	Initial issue.