OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-21.32
Project number 2619873

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	Flintec UK Limited Caxton House, Caxton Place CF23 8HG Cardiff United Kingdom
Identification of the certified type	A **bending beam load cell**, with strain gauges, tested as a part of a weighing instrument. Registered trade name : Flintec Type : PBW
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.

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 September 2021

Certification Board

NMi Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Reports:
- No. NMi-2619873-01 dated 10 September 2021 that includes 31 pages;
- No. NMi-2619873-02 dated 10 September 2021 that includes 24 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	5,7 kg up to 45,4 kg	45,4 kg up to and including 227 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	0,9 mV/V ± 0,1 %, or 1,09 mV/V ± 0,1 % (only for E_{max} > 109 kg)	
Maximum number of load cell intervals (n) (1)	3000	
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	9000	13000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	3000	
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}, or 250 % (only for E_{max} > 109 kg)	
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.