

OIML Member State
The Netherlands

Number R60/2017-A-NL1-21.32 revision 1
Project number 2619873
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Flintec UK Limited
Caxton House, Caxton Place
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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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
11 January 2022

Certification Board

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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 revision 1 dated 10 January 2022 that includes 55 pages;
- No. NMI-2619873-02 revision 1 dated 10 January 2022 that includes 46 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 \pm 0,1 %, or 1,09 mV/V \pm 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⁾ $Z = E_{max} / (2 * DR)$	5000	
Input impedance	1180 $\Omega \pm 50 \Omega$	
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 $\Omega \pm 10 \Omega$	
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

This revision replaces the previous version(s).

Revision	Date	Change(s)
Initial	2021-09-10	Initial issue
1	2022-01-11	Revision to include reports with NTEP annex and update with Z=5000