

OIML Member State
The Netherlands

Number R60/2000-A-NL1-17.58 revision 2
Project number 3741077
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Issuing authority

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

Applicant and
Manufacturer

Flintec UK Ltd
Caxton House
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Cardiff
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United Kingdom

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics.

Type : RC3D

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 60-1:2017 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
19 December 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. R60/2000-NL1-04.16 dated 27 September 2004 that includes 53 pages;
- No. NMI-1901068-01 revision 1 dated 22 August 2017 that includes 89 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	25 t up to and including 100 t
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	166666 cts if $E_{max} = 25t$ 200000 cts if $E_{max} > 25 t$
Maximum number of load cell intervals (n) ⁽¹⁾	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$	15000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	9000
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,8
Humidity Class	CH
Safe overload	200 % of E_{max}
Recommended excitation	12 V DC
Excitation maximum	12 V DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded
Electromagnetic environment class	E2
Number of counts for E_{max}	$\geq Y * 5 / p_{LC}$
Software identification	Version number: XRC1xxxxxxx or XRCv2xxxxxx ⁽²⁾

Remarks:

1. The characteristics for n_{max} , Y and Z can be reduced separately.
2. xxxxxx is a number between 000000 and 999999 representing updates of the non legally relevant part of the software.

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 versions.

Revision	Date	Change(s)
0	2017-09-05	Initial issue
1	2021-11-30	Revision to include reports with NTEP annex
2	2023-12-19	Addition of firmware XRC1xxxxxxx and change of address