



OIML Member State
The Netherlands

OIML Certificate

Number R60/2017-A-NL1-20.30 revision 1
Project number 2576185
Page 1 of 3

Issuing authority NMI Certin B.V.
Person responsible: M. Boudewijns

Applicant and Manufacturer SCAIME
Technosite Altéa 294 rue G, Charpak
74100 Juvigny
France

Identification of the certified type A **bending beam load cell**, with strain gauges.
Type : F60X

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**
1 March 2021

Certification Board

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

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.



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

- No. NMI-2356874-01 dated 21 September 2020 that includes 51 pages;
- No. NMI-2356874-02 dated 21 September 2020 that includes 46 pages;
- No. NMI-2576185-01 dated 1 March 2021 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	10 kg up to and including 500 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V \pm 0,1%
Maximum number of load cell intervals (n) ⁽¹⁾	6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	20000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	10000
Input impedance	385 Ω \pm 20 Ω
Temperature range	-10 $^{\circ}$ C / + 40 $^{\circ}$ C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	350 Ω \pm 5 Ω
Recommended excitation	1 - 10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded

Remarks:

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.

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.



OIML Member State
The Netherlands

OIML Certificate

Number R60/2017-A-NL1-20.30 revision 1
Project number 2576185
Page 3 of 3

Revision History

This revision replaces the previous version(s).

Revision	Date	Change(s)
Initial	2020-09-21	F60X 10 kg and 100 kg samples, both 4-wire
1	2021-03-01	F60X 100 kg 6-wire sample tested specifically for NTEP requirements