

OIML Member State
The Netherlands

Number R60/2017-A-NL1-20.10 revision 1
Project number 3493912
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Issuing authority

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

Applicant and
Manufacturer

Scaime S.A.S.
294, rue Georges Charpak - CS 50501
74105 ANNEMASSE Cedex
France

Identification of the
certified type

A **single point load cell**, with strain gauges.
Registered trade name : Scaime S.A.S.
Type : AVX

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
11 August 2022

Certification Board

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

- No. NMI-2440161-01 dated 28 April 2020 that includes 51 pages;
- No. NMI-3493912-01 dated 3 August 2022 that includes 48 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	7,5 kg up to 75 kg	75 kg up to and including 375 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	$1,8 \pm 0,2$ mV/V	$2,0 \pm 0,2$ mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	4000	5000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	15000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	4700	7500
Input impedance	$385 \Omega \pm 20 \Omega$	
Temperature range	$-10 \text{ }^\circ\text{C} / +40 \text{ }^\circ\text{C}$	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	$350 \Omega \pm 5 \Omega$	
Recommended excitation	5 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically welded	

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.

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.



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Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
0	30-04-2020	Initial issue.
1	11-08-2022	Expanding range E_{\max}