

OIML Member State
The Netherlands

Number R60/2017-A-NL1-21.04
Project number 2517421
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Issuing authority

NMi Certin B.V.
Person responsible: M. Boudewijns

Applicant and
Manufacturer

Mettler-Toledo (Changzhou) Precision Instruments Ltd.
No. 22, Zhengqiang Road,
Xinbei District, Changzhou,
Jiangsu 213125
P. R. of China

Identification of the
certified type

A **single point load cell**, with strain gauges, equipped with electronics.
Registered trade name : Mettler-Toledo
Type : SLP84XD

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
29 January 2021

Certification Board

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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 on 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-2517421-01 dated 29 January 2021 that includes 69 pages;
- No. NMI-2517421-02 dated 29 January 2021 that includes 46 pages;
- No. NMI-2517421-03 dated 29 January 2021 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities		Digital load cell with data processing
Maximum capacity (E_{max})		11 kg up to and including 750 kg
Minimum dead load		0 kg
Accuracy Class		C
Maximum number of load cell intervals (n) ⁽¹⁾		6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$		28000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$		6000
Temperature range		-10 °C / + 40 °C
Fraction p_{LC}		0,8
Humidity Class		CH
Safe overload		150 % of E_{max}
Recommended excitation		12 V DC
Excitation maximum		30 V DC
Transducer material		Stainless steel
Atmospheric protection		Hermetically welded
Electromagnetic environment class		E2
Data transmission	Interface and data protocol	MT-SICS Level 0_1
	Filtering	Adaptive
	Sample frequency	366,21 Hz
Software identification ⁽²⁾		See certificate TC8039

Remarks:

1. The characteristics for n_{max} , Y and Z can be reduced separately.
2. The software identification can be sent through the interface on command and will be displayed on the device that displays the primary indications.

The digital load cell has embedded software (OIML R 76-1 (2006)).
The legally relevant functions are listed in certificate TC8039.

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.