

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-22.43 revision 2  
Project number 3540870  
Page 1 of 3

Issuing authority

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

Applicant and  
Manufacturer

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

Identification of the  
certified type

A **single point load cell**, with strain gauges,  
Registered trade name : Mettler-Toledo  
Type : IL

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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
23 May 2023

Certification Board

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

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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 Reports:

- No. R60/2000-NL-02.11A dated 1 May 2002 that includes 40 pages;
- No. NMI-3540870-01 dated 12 January 2023 that includes 26 pages;
- No. NMI-3540870-02 dated 12 January 2023 that includes 24 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity ( $E_{max}$ )	150 kg up to and including 2000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	$2,0 \pm 0,1$ mV/V
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	20000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	3000
Input impedance	$381 \Omega \pm 15 \Omega$
Temperature range	-10 °C / +40 °C
Fraction $p_{LC}$	0,7
Humidity Class	CH
Safe overload	150 % of $E_{max}$
Output impedance	$350 \Omega \pm 4 \Omega$
Recommended excitation	5-15 V AC / DC
Excitation maximum	20 V AC / DC
Transducer material	Alloy steel
Atmospheric protection	Silicone Rubber

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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Number R60/2017-A-NL1-22.43 revision 2  
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Page 3 of 3

## Revision History

This revision replaces the earlier version.

Revision	Date	Changes
0	2023-01-12	Initial issue
1	2023-02-27	Rectification for reference to old OIML recommendation
2	2023-05-23	Rectification date of publishing test rapport