

OIML Member State
The Netherlands

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Project number 3540870
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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
27 February 2023

Certification Board

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

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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 2022 that includes 26 pages;
- No. NMI-3540870-02 dated 12 January 2022 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) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	20000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	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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Revision History

This revision replaces the earlier version.

Revision	Date	Change(s)
0	2023-01-12	Initial issue
1	2023-02-27	Rectification for reference to old OIML recommendation