

**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-24.19 revision 0  
Project number 3819694  
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Issuing authority

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

Applicant

Mettler-Toledo GmbH  
Im Langacher  
8606 Greifensee  
Switzerland

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 **bending beam load cell**, with strain gauges.  
Registered trade name : Mettler-Toledo  
Type : 0745A

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 60-1:2021** 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**  
11 July 2024

Certification Board

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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.



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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. R60/2000-NL1-09.07A revision 2 dated 11 April 2013 that includes 38 pages;
- No. R60/2000-NL1-09-07B revision 2 dated 11 April 2013 that includes 39 pages;
- No. NMI-3819694-01 dated 11 July 2024 that includes 4 pages;
- No. NMI-3819694-02 dated 11 July 2024 that includes 4 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity ( $E_{max}$ )	220 kg up to and including 4400 kg	
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	1,94 mV/V $\pm$ 0,002 mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000	6000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / v_{min}$	25000	
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	7500	
Input impedance	384 $\Omega$ $\pm$ 10 $\Omega$	
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 $\Omega$ $\pm$ 2 $\Omega$	
Recommended excitation	15 V DC	10 V DC
Excitation maximum	15 V AC / DC	
Transducer material	17-4 PH Stainless Steel	
Atmospheric protection	Welded enclosure	

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

Revision	Date	Change(s)
0	2024-07-11	Initial issue.