



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-21.09  
Project number 2558090  
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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  
ChangZhou Jiangsu 213125  
P.R. China

Identification of the  
certified type

A **bending beam load cell**, with strain gauges  
Registered trade name : Mettler-Toledo  
Type : 0805

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**  
8 February 2021

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://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.



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

- No. R60/2000-NL-02.17A dated 17 June 2002, that includes 43 pages;
- No. R60/2000-NL-02.17B dated 6 June 2002, that includes 37 pages;
- No. R60/2000-NL1-04.19A dated 21 December 2004, that includes 43 pages;
- No. R60/2000-NL1-04.19A revision 1 dated 13 February 2012 that includes 31 pages;
- No. R60/2000-NL1-04.19B dated 21 December 2004, that includes 37 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity ( $E_{max}$ )	100 kg up to and including 1000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V
Maximum number of load cell intervals (n) <sup>(1)</sup>	6000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	12500
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	6000
Input impedance	415 $\Omega \pm 15 \Omega$
Humidity Class	SH
Safe overload	150% of $E_{max}$
Output impedance	350 $\Omega \pm 3 \Omega$
Recommended excitation	10 V DC/AC
Excitation maximum	15 V DC/AC
Transducer material	Aluminum
Atmospheric protection	Potted

### Remarks:

1. The characteristics for  $n_{max}$  and Y can be reduced separately. Z is proportional or equal to  $n_{max}$ .

Each load cell produced is provided with an accompanying document with information about its characteristics.