



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-20.24  
Project number 2504084  
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Issuing authority

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

Applicant and  
Manufacturer

METTLER-TOLEDO (Changzhou) Precision Instrument Ltd.  
No.22 Zhengqiang Road  
Changzhou, Jiangsu, 213125  
P.R. CHINA

Identification of the  
certified type

A **bending beam load cell**, with strain gauges.  
Type : 0765

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**  
27 August 2020

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:

- Number R60/2000-NL-02.02 dated 4 January 2004, that includes 43 pages;
- Number R60/2000-NL1-07.06 dated 6 April 2007, that includes 43 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity ( $E_{max}$ )	5 kg up to and including 25 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0-2,5 mV/V $\pm$ 0,2 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 $\Omega$
Temperature range	-10 °C / +40 °C
Fraction $p_{LC}$	0.7
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	Aluminium
Atmospheric protection	Silicone rubber on bare conductors

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.