



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2000-A-NL1-18.32  
Project number 1902131  
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Issuing authority NMI Certin B.V.  
Person responsible: C. Oosterman

Applicant and Manufacturer Mettler-Toledo (Changzhou) Precision Instruments Ltd.  
No. 22, Zhengqiang Road, XinBei District  
Changzhou, Jiangsu 213125  
Peoples Republic of China

Identification of the certified type A **single point load cell**, with strain gauges.  
Type : MT1241.....

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 2000 (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**  
20 December 2018



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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-NL1-06.04A dated 9 May 2003 that includes 37 pages;
- No. R60/2000-NL1-06.04B dated 9 May 2003 that includes 38 pages;
- No. NMI-1902131-01 dated 20 December 2018 that includes 26 pages;
- No. NMI-1902131-02 dated 20 December 2018 that includes 24 pages.

**Characteristics of the load cell:**

Maximum capacity ( $E_{max}$ )	30 kg up to and including 250 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V $\pm$ 0,2 mV/V
Maximum number of load cell intervals (n) <sup>(1)</sup>	3500
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / v_{min}$	10000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	3500
Input impedance	410 $\Omega$ $\pm$ 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 $\Omega$ $\pm$ 4 $\Omega$
Recommended excitation	5 - 15 V AC / DC
Excitation maximum	20 V AC / DC
Transducer material	Aluminium alloy
Atmospheric protection	Silicon rubber

Remarks:

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.