

**OIML Member State** 

The Netherlands

## **OIML** Certificate



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

Applicant and Manufacturer Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee Switzerland

Identification of the	A single point load cell, with strain gauges.	
certified type	Туре	: MT1041
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



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## **Certification Board**

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

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

- No. R60/1991-NL-98.16A dated 25 September 1998 that includes 38 pages;
- No. R60/1991-NL-98.16B dated 25 September 1998 that includes 36 pages
- No. NMi-1902131-06 dated 8 November 2018 that includes 16 pages.

## Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E <sub>max</sub> )	10 kg up to and including 150 kg	
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V ± 0,2 mV/V	
Maximum number of load cell intervals (n) $^{(1)}$	3000	
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)	3000	
Input impedance	<b>410</b> Ω <b>± 10</b> Ω	
Temperature range	-10 °C / + 40 °C	
Fraction $p_{LC}$	0,7	
Humidity Class	СН	
Safe overload	150 % of E <sub>max</sub>	
Output impedance	<b>350</b> Ω ± 4 Ω	
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.