



OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-20.05
Project number 2468186
Page 1 of 2

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 certified type A **single point load cell**, with strain gauges.
Type : MT1022-...

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.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
13 March 2020

Certification Board

NMI Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



OIML Member State
The Netherlands

Number R60/2017-A-NL1-20.05
Project number 2468186
Page 2 of 2

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

- No. R60/1991-NL-99.02A dated 27 January 1999 that includes 36 pages;
- No. R60/1991-NL-99.02B dated 25 January 1999 that includes 37 pages;
- No. R60/2000-NL1-08.11 dated 19 November 2008 that includes 38 pages;
- No. NMI-1902131-05 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_{max})	3 kg up to and including 30 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) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	9000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3000
Input impedance	400 Ω \pm 10 Ω
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	350 Ω \pm 4 Ω
Recommended excitation	5 - 15 V AC / DC
Excitation maximum	20 V AC / DC
Transducer material	Aluminium
Atmospheric protection	Silicon rubber

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.