

OIML Member State
The Netherlands

Number R60/2000-A-NL1-23.11 revision 0
Project number SO16204379
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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Mettler-Toledo GmbH
Im Langacher 44
8606 Greifensee
Switzerland

Identification of the
certified type

A **single point load cell**, with strain gauges, equipped with electronics.

Type

: IS78N..

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
3 April 2023

Certification Board

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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 Test Reports:

- No. NMI-11200209-01 Revision 1 dated 28 April 2014 that includes 66 pages;
- No. NMI-11200209-02 Revision 1 dated 28 April 2014 that includes 49 pages;
- No. NMI-11200439-04 dated 8 March 2012 that includes 20 pages;
- No. NMI-11200439-07 dated 8 March 2012 that includes 25 pages;
- No. NMI-12200205-01 Revision 1 dated 28 April 2014 that includes 46 pages;
- No. NMI-12200756-01 Revision 1 dated 28 April 2014 that includes 12 pages;
- No. NMI-12200756-02 Revision 1 dated 28 April 2014 that includes 46 pages;
- No. NMI-13200259-01 Revision 1 dated 28 April 2014 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	30 kg up to and including 50 kg	
Minimum dead load	0 kg	
Accuracy Class	C	
Maximum number of load cell intervals (n)	7500	
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	30000	
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	15000	
Temperature range	-10 °C / +40 °C	
Fraction p_{LC}	0,8	
Humidity Class	SH	
Safe overload	150% of E_{max}	
Recommended excitation	5 V DC	
Excitation maximum	5,25 V DC	
Transducer material	Aluminium	
Atmospheric protection	Silicon rubber	
Data transmission	interface and data protocol	MT-SCIS Level 0_1
	filtering	adaptive
	sample frequency	366,21 Hz

Software:

Producer	Type or designation	Certificate number
Mettler-Toledo	Rainbow	TC8039

The characteristics for n_{max} and Y can be reduced separately.



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

Revision History

Revision	Date	Change(s)
0	3 April 2023	Initial issue.