OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R60/2000-NL1-17.52
Project number 1901292

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
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, tested as a part of a weighing instrument, Type : IS78N
Characteristics	See next page

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.

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**
25 July 2017

C. Oosterman
Head Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- 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-11200756-01 Revision 1 dated 28 April 2014 that includes 12 pages;
- No. NMi-11200756-02 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

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Software:

Producer	Type or designation	Certificate number
Mettler-Toledo	Rainbow	TC8039

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

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