



OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-19-07 revision 1
Project number 2611823
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Issuing authority

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

Applicant and
Manufacturer

Mettler-Toledo (Changzhou) Precision Instruments Ltd.
22 ZhengQiang Road, ChangZhou
JiangSu, 213125
P.R.China

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics,
Type : SLC820... or PDX...

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
13 May 2022

Certification Board

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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 on top of the electronic version of this certificate.



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

- No. R60/2000-NL1-09.08 dated 11 June 2009 that includes 53 pages;
- No. NMI-15200551-01 dated 15 April 2016 that includes 15 pages;
- No. NMI-2611823-02 dated 13 May 2022 that includes 23 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	20 t up to and including 90 t	100 t up to and including 500 t
Minimum dead load	50 kg	50 kg
Accuracy Class	C	
Maximum number of load cell intervals (n) ⁽¹⁾	6000	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$	25000	10000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	6000	3000
Temperature range	-10 °C / +40 °C	
Fraction p_{LC}	0,8	
Humidity Class	CH	
Safe overload	200 % of E_{max}	150 % of E_{max}
Recommended excitation	7,5 V – 24 V DC	
Excitation maximum	24 V DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically welded	
Electromagnetic environment class	E2	
Number of counts for E_{max}	$\geq Y * 5 / p_{LC}$	
Software identification	2.xx ⁽²⁾	

Remarks:

1. The characteristics for n_{max} , Y and Z can be reduced separately.
2. xx is a number between 00 and 99 representing updates of the non legally relevant part of the software.

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



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The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.

Revision History

This revision replaces the previous version(s).

Revision	Date	Change(s)
0	2019-06-26	-
1	2022-05-13	Updated main board, Additional EMC test done