OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R60/2000-NL1-17.60
Project number 1901501
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Moorange Electronics Mfg (Shanghai) Co.,Ltd. No.335, Group2 Haishen, Haiqiao Rd, Huinan, Pudong District, Shanghai 201301 China
Identification of the certified type	A **compression load cell**, with strain gauges. Type : M36, M36i
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** 3 October 2017 C. Oosterman Head Certification Board

OIML
MUTUAL ACCEPTANCE ARRANGEMENT

INSPECTION
RvA I 122

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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report:
- No. NMi-15200268-01 rev. 1 dated 29 September 2015 that includes 51 pages.

Maximum capacity (E_{max})	20000 kg up to and including 100000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V
Maximum number of load cell intervals (n) [1]	3500
Ratio of minimum LC Verification interval [1] $Y = E_{max} / v_{min}$	16000
Ratio of minimum dead load output return [1] $Z = E_{max} / (2 * DR)$	3800
Input impedance	700 Ω ± 10 Ω
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	700 Ω ± 10 Ω
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Steel
Atmospheric protection	Hermetically welded

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.

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 MAA Declaration of Mutual Confidence:
- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.