



OIML Member State

The Netherlands

Number R60/2017-A-NL1-24.03 revision 0

OIML Certificate

Project number 3682284

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Issuing authority NMi Certin B.V.

Person responsible: M.Ph.D. Schmidt

Applicant and Zhonghang Electronic Measuring Instruments Co. Ltd. Manufacturer Xinyuan Road, north part of EDZ Hanzhong

723000, Hanzhong, Shaanxi

China

Identification of the

certified type

A compression load cell, with strain gauges. Registered trade name

HM14H, HM14Hx (x = 4, 5, 7, 8) Type

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 60-1:2017 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 1 February 2024



Certification Board

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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.





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

No. NMi-3682284-01dated 30 January 2024 that includes 74 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell				
Maximum capacity (E _{max})	30 t up to and including 150 t				
Minimum dead load	0 t				
Accuracy Class	С				
Rated Output	2,00 mV/V ± 0,02 mV/V				
Maximum number of load cell intervals (n) (1)	4000				
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	29000				
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	4000				
Input impedance	750 Ω ± 20 Ω				
Temperature range 👚	-10 °C / +40 °C				
Fraction p _{LC}	0,7				
Humidity Class	СН				
Safe overload	150 % of E _{max}				
Output impedance	700 Ω ± 7 Ω				
Recommended excitation	10 V AC / DC				
Excitation maximum	18 V AC / DC				
Transducer material	Alloy steel				
Atmospheric protection	Hermetically welded				

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.

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.







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Revision History

Revision	Date	Change(s)			
0	2024-02-01	Initial issue.			

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