

OIML Certificate of Conformity

OIML Member State

The Netherlands

Number R60/2000-NL1-17.07 Project number 16200612 Page 1 of 2

Issuing authority NMi Certin B.V.

Person responsible: C. Oosterman

Applicant and Manufacturer

1-1-1, Katase Fujisawa-shi, Kanagawa-ken

251-8531 Fujisawa

MinebeaMitsumi Inc.

Japan

Type

Identification of the

A **bending beam load cell**, with strain gauges.

certified type

: M130 or PR78, M130T or PR78T

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 R60 - 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

17 February 2017

C. Oosterman

Head Certification Board

NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht the Netherlands T +31 78 6332332 certin@nmi.nl www.nmi.nl This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

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Number R60/2000-NL1-17.07 Project number 16200612 Page 2 of 2

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

- No. NMi-16200612-01 dated 15 February 2017 that includes 51 pages;
- No. NMi-16200612-02 dated 15 February 2017 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E _{max})	220 kg up to and including 1760 kg
Minimum dead load	0 kg
Accuracy Class	+ + + + + + + + + + + + + + + + + + +
Rated Output	+ + + + + + + + 2,0 mV/V + + + + + + + +
Maximum number of load cell intervals (n)	6000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	20000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	+ + + + + + + + 6000 + + + + + + + + + +
Input impedance + + + + + + + + +	$+ + + + + + + 415 \Omega \pm 65 \Omega + + + + + + +$
Temperature range	-10 °C / + 40 °C
Fraction p _{LC}	0,7
Humidity Class + + + + + + + + +	+ + + + + + + + CH + + + + + + + +
Safe overload	+ + + + + + + 150 % of E _{max} + + + + + +
Output impedance	350 Ω ± 0,35 Ω
Recommended excitation	+ + + + + + + 10 V AC / DC + + + + + + + +
Excitation maximum	+ + + + + + + 15 V AC/DC+ + + + + + +
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded

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.

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.