



**OIML Member State**  
The Netherlands

# OIML Certificate

Number R60/2000-A-NL1-18.13  
Project number 1902096  
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Issuing authority

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

Applicant and  
Manufacturer

Vishay Precision Transducers India Ltd.  
OZ-22 Hi-Tech SEZ  
Kancheepuram 602105  
Tamil Nadu  
India

Identification of the  
certified type

A **single point load cell**, with strain gauges,  
Type : 1004

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**  
23 July 2021

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://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 Test Report(s):

- No. NMI-1902096-01 dated 24 July 2018 that includes 51 pages.

## Characteristics of the load cell:

Maximum capacity ( $E_{max}$ )	0,6 kg up to and including 3 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	0,9 mV/V $\pm$ 0,1 mV/V
Maximum number of load cell intervals (n) <sup>1</sup>	6000
Ratio of minimum LC Verification interval <sup>1</sup> $Y = E_{max} / V_{min}$	7500
Ratio of minimum dead load output return <sup>1</sup> $Z = E_{max} / (2 * DR)$	6000
Input impedance	415 $\Omega$ $\pm$ 20 $\Omega$
Temperature range	- 10 °C / + 40 °C
Fraction $p_{LC}$	0,7
Humidity Class	CH
Safe overload	150 % of $E_{max}$
Output impedance	350 $\Omega$ $\pm$ 3 $\Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Aluminium
Atmospheric protection	Silicone rubber

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)
Initial	2021-07-23	Certificate number R60/2000-A-NL1-18.13 assigned in lieu of the previously wrongly assigned number R60/2000-A-NL1-18.03