



# OIML Certificate of Conformity

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-17.51  
Project number 1901272  
Page 1 of 2

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Vishay Precision Transducers India Ltd. OZ-22 Hi-Tech SEZ Kancheepuram 602105 Tamil Nadu India
Identification of the certified type	A <b>compression load cell</b> , with strain gauges, equipped with electronics. Type : 121D
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.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
1 August 2017



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Page 2 of 2

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

- No. NMI-14200254-02 dated 4 September 2015 that includes 70 pages.

### Characteristics of the load cell:

Maximum capacity ( $E_{max}$ )	25 t up to and including 50 t
Minimum dead load	0 kg
Accuracy Class	C
Maximum number of load cell intervals (n) <sup>(1)</sup>	3200
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / v_{min}$	25000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	7500
Temperature range	-10 °C / +40 °C
Fraction $p_{LC}$	0,8
Humidity Class	CH
Safe overload	150 % of $E_{max}$
Recommended excitation	12 V DC
Excitation maximum	20 V DC
Transducer material	Stainless steel
Atmospheric protection	Welded seal
Number of counts for $E_{max}$	$\geq Y * 5 / p_{LC}$
Software identification	Version number: 1.00.01 Firmware number: 1.xx.xx <sup>(2)</sup>

### 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 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.