OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-18.04
Project number 1902096

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 fluid damped **single point load cell**, with strain gauges, Type : 9010
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.

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**
27 July 2018

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

INSPECTION RvA I 122

OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-18.04
Project number 1902096

The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):
- No. R60/2000-NL1-09.02 dated 17 February 2009 that includes 40 pages;
- No. NMi-1902096-02 dated 24 July 2018 that includes 49 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	3 kg up to and including 15 kg	10 kg up to and including 50 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2 mV/V ± 0,2 mV/V	
Maximum number of load cell intervals (n)	3500	3000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	52000	15000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	6000	3500
Input impedance	415 Ω ± 15 Ω	
Temperature range	- 10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	350 Ω ± 3 Ω	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Aluminium	
Atmospheric protection	IP65 in Ni plated Aluminium housing or Stainless Steel housing	
Damping	Silicone fluid with a viscosity of	
	$50 \cdot 10^{-6}$ m²/s	$350 \cdot 10^{-6}$ m²/s

Remark:
- 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 samples with range of 3 kg up to and including 15 kg and identified in the OIML Test Report NMi-1902096-02) has 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.