

**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-24.20 revision 1  
Project number 3657711  
Page 1 of 3

Issuing authority

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

Applicant and  
Manufacturer

VPG 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.

Registered trade name : VPG force sensors or Tede  
Huntleigh

Type

: vLite 0022, vLite 0031, vLite 0038 or  
vLite 0042

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 60-1:2021** 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**  
20 August 2024

Certification Board

NMi Certin B.V.  
Thijssseweg 11  
2629 JA Delft  
The Netherlands  
T +31 88 6362332  
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.

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.



**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-24.20 revision 1  
Project number 3657711  
Page 2 of 3

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

- No. NMI-3657711-02 revision 1 dated 20 August 2024 that includes 51 pages;
- No. NMI-3657711-03 revision 1 dated 20 August 2024 that includes 46 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity ( $E_{max}$ )	50 kg up to and including 100 kg	100 up to and including 300 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2 mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000	
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	12000	25000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	6000	
Input impedance	410 $\Omega \pm 25 \Omega$	
Temperature range	-10 °C / +40 °C	
Fraction $p_{LC}$	0,7	
Humidity Class	CH	
Safe overload	150 % of $E_{max}$	
Output impedance	354 $\Omega \pm 5 \Omega$	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	(Coated) Aluminium	
Atmospheric protection	Silicone Rubber	

### Remarks:

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.



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-24.20 revision 1  
Project number 3657711  
Page 3 of 3

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.

## Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
0	2024-07-11	Initial issue.
1	2024-08-20	Corrections and updating Y value.