

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.03 revision 0
Project number 3669796
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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 **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : VPG force sensors / Revere / Tede
Huntleigh
Type : RLCD

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
27 February 2025

Certification Board

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

- No. NMI-3669796-01 dated 27 February 2025 that includes 86 pages;
- No. NMI-3669796-02 dated 27 February 2025 that includes 14 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Digital load cell with data processing
Maximum capacity (E_{max})	10 t up to and including 50 t
Minimum dead load	0 t
Accuracy Class	C
Maximum number of load cell intervals (n) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$	30000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	4500
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	32 V DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded
Electromagnetic environment class	E2
Number of counts for E_{max}	$\geq Y * 5 / p_{LC}$
Software identification	SW Version: 1.xx ⁽²⁾

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 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



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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

Revision	Date	Change(s)
0	2025-02-27	Initial issue.