



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2021-A-NL1-25.07 revision 0  
Project number 3958133  
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Issuing authority

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

Applicant and  
Manufacturer

DPK PESAGE  
807 Route de Saint Omer  
62100 Calais  
France

Identification of the  
certified type

A **compression load cell**, with strain gauges, equipped with electronics.  
Registered trade name : DPK PESAGE  
Type : DPK-ZSF-A-...  
DPK-ZSFY-A-... or  
DPK-ZSFYB-A-...

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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

*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**  
16 June 2025

Certification Board

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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.



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

- No. R60\2000-NL1-05B dated 11 October 2005 that 37 pages;
- No. R60\2000-NL1-05A dated 12 October 2005 that 40 pages.

## Characteristics of the load cell:

|                                                                                       |                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Characterization of load cell capabilities                                            | Analog-passive load cell                                                                                                                                                             |
| Maximum capacity ( $E_{\max}$ )                                                       | 10000 kg up to and including 50000 kg                                                                                                                                                |
| Minimum dead load                                                                     | 0 kg                                                                                                                                                                                 |
| Rated Output                                                                          | 2 mV/V $\pm$ 0,002 mV/V                                                                                                                                                              |
| Maximum number of load cell intervals (n) <sup>(1)</sup>                              | 3000                                                                                                                                                                                 |
| Ratio of minimum LC Verification interval <sup>(1)</sup><br>$Y = E_{\max} / v_{\min}$ | 10000                                                                                                                                                                                |
| Ratio of minimum dead load output return <sup>(1)</sup><br>$Z = E_{\max} / (2 * DR)$  | 3000                                                                                                                                                                                 |
| Input impedance                                                                       | 400 $\Omega \pm 20 \Omega$ for the Model DPK-ZSF-A-.....<br>730 $\Omega \pm 30 \Omega$ for the Model DPK-ZSFY-A-.....<br>1100 $\Omega \pm 10 \Omega$ for the Model DPK-ZSFYB-A-..... |
| Temperature range                                                                     | -10 °C / +40 °C                                                                                                                                                                      |
| Fraction $p_{LC}$                                                                     | 0,7                                                                                                                                                                                  |
| Humidity Class                                                                        | CH                                                                                                                                                                                   |
| Safe overload                                                                         | 150 % of $E_{\max}$                                                                                                                                                                  |
| Output impedance                                                                      | 352 $\Omega \pm 2 \Omega$ for the DPK-Model ZSF-A-.....<br>705 $\Omega \pm 5 \Omega$ for the DPK-Model ZSFY-A-.....<br>1005 $\Omega \pm 5 \Omega$ for the DPK-Model ZSFYB-A-.....    |
| Recommended excitation                                                                | 10 / 12 V DC                                                                                                                                                                         |
| Excitation maximum                                                                    | 15 V DC                                                                                                                                                                              |
| Transducer material                                                                   | Alloy steel                                                                                                                                                                          |
| Atmospheric protection                                                                | Welded steel cover                                                                                                                                                                   |

## 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.



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## Revision History

| Revision | Date         | Change(s)      |
|----------|--------------|----------------|
| 0        | 16 June 2025 | Initial issue. |