

Issued NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993,
WELMEC 2.4 Issue 2, OIML R 60 (2000).

Producer Vishay Precision Group – Transducers
26 Harokmim St.
Holon, 5885849
Israel

Measuring instrument A **compression load cell**, with strain gauges, tested as a part of a weighing instrument.

Brand : VPG Transducers or
Revere Transducers

Designation : ASC2

Further properties are described in the annexes:
- Description TC8545 revision 0;
- Documentation folder TC8545-1.

An overview of performed tests is given in the annex:
- Description TC8545 revision 0.

Issuing Authority **NMI Certin B.V.**
7 April 2015



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This document is issued under the provision that no liability is accepted and that the producer shall indemnify third-party liability.

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMI (see "Regulation objection and appeal against decisions of NMI" www.nmi.nl)

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1 General information about the load cell

All properties of the load cell, whether mentioned or not, shall not be in conflict with the standards mentioned in this certificate.

This certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC 8.8. The complete measuring system must be covered by an EC type-approval Certificate or an EC-type examination Certificate.

1.1 Essential parts

| Number | Pages | Description | Remark |
|-----------|-------|--------------------|------------|
| 8545/0-01 | 1 | General Dimensions | Mechanical |
| 8545/0-02 | 1 | Wiring | Electrical |

Cable:

- If the load cell is provided with a 4-wire system:
 - The cable length is mentioned in the accompanying load cell document / on the label;
 - The cable length shall not be modified.
- If the load cell is provided with a 6-wire system (=“Remote-sensing”):
 - The cable length is not limited.

The cable shall be a shielded cable.

1.2 Essential characteristics

| | | |
|--|---------------------------------|-------------------------------|
| Maximum capacity (E_{max}) | 25 t | 30 t up to and including 60 t |
| Minimum dead load | 0 kg | |
| Accuracy Class | C | |
| Rated Output | 1,6 mV/V | 2,0 mV/V |
| Maximum number of load cell intervals (n) | 5500 | |
| Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$ | 9400 | |
| Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$ | 5500 | |
| Input impedance | 1160 $\Omega \pm 60 \Omega$ | |
| Temperature range | -10 °C / +40 °C | |
| Fraction p_{LC} | 0,7 | |
| Humidity Class | CH | |
| Safe overload | 150 % of E_{max} | |
| Output impedance | 1011,5 $\Omega \pm 11,5 \Omega$ | |
| Recommended excitation | 10 V DC | |
| Excitation maximum | 15 V DC | |
| Transducer material | Stainless steel | |
| Atmospheric protection | Welded seal | |

The characteristics for n_{max} and Y and Z can be reduced separately.

Each produced load cell is provided with an accompanying document with information about its characteristics.

1.3 Essential shapes

The load cell is built according to drawings:

| Number | Pages | Description | Remark |
|-----------|-------|--------------------|------------|
| 8545/0-01 | 1 | General Dimensions | Mechanical |

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed and contains at least the information and markings as described in OIML R 60 (2000) and:

- This certificate number TC8545 (in the countries where it is mandatory);
- Producers name or mark.



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2 Seals

The connecting cable of the load cell or the junction box is provided with possibility to seal.

3 Conditions for conformity assessment

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2 Issue 5 Section 11, at the time of placing on the market.

Other parties may use this certificate without the written permission of the producer (WELMEC 8.8).

4 Reports

An overview of performed tests is given in the report:

- No. NMI-14200254-01 dated 7 April 2015 that includes 51 pages.

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.