



Number **TC5572** revision 2
Project number 700148
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Issued by NMI Certin B.V.
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The Netherlands

Notified Body Number 0122

In accordance with Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic weighing instruments EN 45501:1992/AC:1993 and by application of the OIML International Recommendation R 60 (Edition 2000). The applied error fraction p_i , meant in the paragraph 3.5.4. of the standard is 0.7.

Applicant Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany

In respect of A **single point load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : HBM
Type : PW16A...

Characteristics

| | | | | | | |
|---|----------------------------------|-------|------|------|------|------|
| Maximum capacity (E_{max}) | 30 kg up to and including 660 kg | | | | | |
| Accuracy class | D | C | | | | |
| Maximum number of load cell verification intervals (n_{max}) | 1000 | 1000 | 1500 | 2000 | 2500 | 3000 |
| Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$ | 2500 | 15000 | | | | |
| Maximum platform size according OIML R76 | 600 x 600 mm | | | | | |

In the description number TC5572 revision 2 further characteristics are described.



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Test certificate

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Description and documentation The load cell is described in the description number TC5572 revision 2 and documented in the documentation folder TC5572-2, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC5572 revision 2. This revision test certificate replaces the earlier version, including its documentation folder.

Dordrecht, 18 January 2007
NMI Certin B.V.

Ing. C. Oosterman
Manager Product Certification

1 General information about the load cell

All properties of the load cell, whether mentioned or not, may not be in conflict with the standard mentioned in the test certificate.

1.1 Essential parts

| Description | Drawing number | Rev. | Remarks |
|----------------------------------|----------------|------|------------|
| PW16 Single point load cell | D 21.PW16.0e | -- | Data Sheet |
| PW16A... Single point load cells | B2192-1.0 en | -- | Data Sheet |

Cable:

- The load cell is provided with a 6-wire system (=“Remote-sensing”).
The cable length is not limited.
- The cable should be a shielded cable, the shield is connected to the load cell.

Nomenclature: PW16x yy / zzz

- x describes
 - different thread version like metric or inch;
 - different body of the load cell;
 - different cable ends such as plugs or even free ends, etc.;
- yy Accuracy class
- zzz Capacity [kg]

1.2 Essential characteristics

| | |
|------------------------|----------------------------------|
| Minimum dead load | : 0 kg |
| Safe overload | : 150 % of E_{max} |
| Rated Output | : 2 mV/V \pm 10% |
| Input impedance | : 420 Ω \pm 15 Ω |
| Output impedance | : 350 Ω \pm 5 Ω |
| Recommended excitation | : 5 V DC/AC |
| Excitation maximum | : 15 V DC/AC |
| Transducer material | : Aluminium |
| Atmospheric protection | : Silicone rubber |

1.3 Essential shapes

The load cell is built according to the drawings:

- PW16 Single point load cell, data sheet number D21.PW16.0e
- PW16A... Single point load cells, data sheet number B2192-1.0 en.

The data plate is secured against removal by sealing or will be destroyed when removed. The data plate mentions at least the information and markings as described in the OIML R60 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC5572.

Securing:

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

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Tests performed for this test certificate:

| Test | Institute | Type, version, remarks |
|---|-----------------|---------------------------------|
| Temperature test and repeatability (20, 40, -10 and 20 °C) | NMi Certin B.V. | PW16.C3 30 kg, 75 kg and 500 kg |
| Temperature effect on minimum dead load output (20, 40, -10 and 20 °C) | NMi Certin B.V. | PW16.C3 30 kg, 75 kg and 500 kg |
| Creep (20, 40 and -10 °C) | NMi Certin B.V. | PW16.C3 30 kg, 75 kg and 500 kg |
| Minimum dead load output return (20, 40 and -10 °C) | NMi Certin B.V. | PW16.C3 30 kg, 75 kg and 500 kg |
| Barometric pressure effects at room temperature | NMi Certin B.V. | PW16.C3 30 kg |
| Damp heat, cyclic: marked CH (or not marked) | NMi Certin B.V. | PW16C3 500 kg |
| Eccentricity test according OIML R76 with platform 600 x 600 mm | NMi Certin B.V. | PW16C3 75 kg |