Test Certificate
Parts Certificate

Number **TC5258** revision 5
Project number 2234361

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 Issue 2, WELMEC 2.4 Issue 2, OIML R 60 (2000), OIML R 76 (2006). EN 45501:2015.
Producer	Hottinger Baldwin Messtechnik GmbH Im Tiefen See 45 D-64293 Darmstadt Germany
Measuring instrument	A **single point load cell**, with strain gauges, tested as a part of a weighing instrument.

Brand : HBM

Designation : PW10…

Further properties are described in the annexes:
- Description TC5258 revision 5
- Documentation folder TC5258-3

An overview of performed tests is given in the annex:
- Description TC5258 revision 5

Remarks: This revision replaces the earlier versions, including its documentation folder.

Issuing Authority: **NMi Certin B.V.**
4 April 2019

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INSPECTION
RvA I 122

Description

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, an EC-type examination certificate or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remark
5258/5-01	1	Load cell outlines	Mechanical
5258/5-02	1	Wiring diagram	Electrical

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.

1.2 Essential characteristics

Maximum capacity (E_{max})	50 kg up to 200 kg	200 kg up to and including 300 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,0 mV/V ± 0,2 mV/V	
Maximum number of load cell intervals (n) (1)	6000	4000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	20000	
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	15000	17000
Input impedance	400 Ω ± 100 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	400 Ω ± 100 Ω	

Recommended excitation	5 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Aluminium
Atmospheric protection	IP67

Remarks:
1. The characteristics for n_{max}, Y and Z can be reduced separately.

1.3 Essential shapes

Number	Pages	Description	Remark
5258/5-01	1	Load cell outlines	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 TC5258 (in the countries where it is mandatory);
- Producers name or mark.

2 Seals

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

3 Conditions for conformity assessment

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

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2, 2015 clause 10, at the time of putting into use.

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 reports:
- No. NMi-2234361-01 dated 4 April 2019 that includes 45 pages;
- No. NMi-2234361-02 dated 4 April 2019 that includes 39 pages.

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