

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993, OIML R60:2000, WELMEC 2.4 Issue 2.

Producer Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45
64293 Darmstadt
Germany

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

Brand : Hottinger Baldwin Messtechnik GmbH

Designation : PW29

Further properties are described in the annexes:

- Description TC8101 revision 0
- Documentation folder TC8101-1

An overview of performed tests is given in the annex:

- Description TC8101 revision 0

Issuing Authority **NMI Certin B.V.**
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C. Oosterman
Head Certification Board

NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands
T +31 78 6332332
certin@nmi.nl
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 standard mentioned in the test certificate.

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

1.1 Essential parts

Number	Pages	Description	Remark
8101/0-01	1	Data sheet PW29	Mechanical
8101/0-02	1	Elekt. Schaltung PW29	Electrical

Cable:

- The load cell is provided with a 6-wire system (=“Remote-sensing”):
 - The cable length is not limited.

The cable is shielded, the shield is not connected to the load cell.

1.2 Essential characteristics

Maximum capacity (E_{max})	100 kg up to and including 1000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V
Maximum number of load cell intervals (n)	4000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	12500
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	4000
Input impedance	$380 \Omega \pm 15 \Omega$
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150% of E_{max}
Output impedance	$350 \Omega \pm 10 \Omega$
Recommended excitation	5 V AC/DC
Excitation maximum	15 V AC/DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded

The characteristics for n_{max} and Y can be reduced separately. Z is proportional or equal to n_{max} .

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 drawing:
 - "Data sheet PW29", drawing number 8101/0-01.

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 recommendation.

In the countries where it is mandatory the load cell should bear this test certificate number: TC8101.

2 Seals

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



Description

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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 EC verification or declaration of EC conformity of type.

The load transmission must conform to one of the examples shown in the WELMEC 2.4.

Other parties may use this Parts Certificate without the written permission of the producer.

4 Test reports, evaluation reports and pattern evaluation reports

An overview of performed tests is given in the reports:

- No. NMI-12200099-01 dated 27 June 2012 that includes 51 pages;
- No. NMI-12200099-02 dated 27 June 2012 that includes 45 pages.