Test Certificate
Parts Certificate

Number **TC11191** revision 1
Project number 1901492

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 Issue 2, WELMEC 2.4 Issue 2, OIML R 60 (2000), EN 45501:2015.
Producer	Zhonghang Electronic Measuring Instruments Co., Ltd (ZEMIC) Xinyuan Rd. North Zone of EDZ, Hanzhong 723000, Shaanxi China
Measuring instrument	A **single point load cell**, with strain gauges, tested as a part of a weighing instrument. Brand : ZEMIC Designation : L6G Further properties are described in the annexes: - Description TC11191 revision 1; - Documentation folder TC11191-2. An overview of performed tests is given in the annex: - Description TC11191 revision 1.
Remarks	This revision replaces the earlier version, including its documentation folder.
Issuing Authority	**NMi Certin B.V.** 27 November 2017 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

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
11191/1-01	5	L6G load cells catalogue for using	Mechanical / 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 may be connected to the load cell.

1.2 Essential characteristics

Maximum capacity (E_{max})	50 kg up to 300 kg	300 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) (1)	3000	4000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	16000	11000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	3000	10000
Input impedance	406 Ω ± 6 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	350 Ω ± 3,5 Ω	
Recommended excitation	5 - 12 V AC / DC	
Excitation maximum	18 V AC / DC	

Transducer material	Aluminium alloy
Atmospheric protection	IP65

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

1.3 Essential shapes

Number	Pages	Description	Remark
11191/1-01	5	L6G load cells catalogue for using	Mechanical / electrical

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 TC11191 (in the countries where it is mandatory);
- Producers name or mark.

2 Seals

This load cell can only be used in combination with an indicator that does not allow changing of the adjustment data of the load cell using any interface.

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-1901492-01 revision 1 dated 24 November 2017 that includes 51 pages;
- No. NMi-1901492-02 revision 1 dated 24 November 2017 that includes 46 pages.

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