Test Certificate
Parts Certificate

Number **TC12195** revision 0
Project number 2560247

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 2017, WELMEC 2.4 2021, OIML R 60 (2021), EN 45501:2015.
Producer	Zhonghang Electronic Measuring Instruments Co. Ltd. Xinyuan Road, north part 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 : L6N

Further properties are described in the annexes:
- Description TC12195 revision 0;
- Documentation folder TC12195-1.

An overview of performed tests is given in the annex:
- Description TC12195 revision 0.

Issuing Authority

NMi Certin B.V.
4 March 2022

Certification Board

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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, an EU-type examination certificate, or an approval that is valid in the country where the load cell is taken into service.

1.1 Essential parts

Number	Pages	Description	Remark
12195/0-01	5	L6N catalogue for using	-

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

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	3 kg up to 20 kg	20 kg up to and including 100 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)	5000	3000
Ratio of minimum LC Verification interval (1) $Y = E_{max} / v_{min}$	14000	30000
Ratio of minimum dead load output return (1) $Z = E_{max} / (2 * DR)$	18000	11000
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 Ω	

Recommended excitation	10 V AC/DC
Excitation maximum	18 V AC/DC
Transducer material	Aluminium
Atmospheric protection	Silicone rubber

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

1.3 Essential shapes

Number	Pages	Description	Remark
12195/0-01	5	L6N catalogue for using	-

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 (2017) and:
- This certificate number TC12195 (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 EN45501:2015 clause F.4, at the time of putting into use.

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

4 Reports

An overview of performed tests is given in the evaluation report ER12195 revision 0.