Test certificate

Number **TC7969** revision 0
Project number 11200444

Issued by	NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands
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).
Manufacturer	Zhonghang Electronic Measuring Instrument Co., Ltd. (ZEMIC) Xinyuan Rd. North Zone of EDZ, Hanzhong 723000, Shaanxi China
In respect of	A **single point beam load cell**, with strain gauges, tested as a part of a weighing instrument. Manufacturer : Zhonghang Electronic Measuring Instrument Co., Ltd (ZEMIC) Type : L6Q-xx-xxx-xx series
Characteristics	E_{max} : 100 kg up to and including 500 kg Accuracy class : C In the description number TC7969 revision 0 further characteristics are described.
Description and documentation	The load cell is described in the description number TC7969 revision 0 and documented in the documentation folder TC7969-1, appertaining to this test certificate.
Remarks	Summary of the test involved: see Appendix number TC7969 revision 0.

Issuing Authority

NMi Certin B.V. Notified Body number 0122
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INSPECTION
RvA I 122

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
L6Q Load cells Catalogue for using	7969/0-01	0	Mechanical / Electrical 4 Pages

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 may be connected to the load cell.

1.2 Essential characteristics

Fraction P_i	:	0,7
Maximum capacity (E_{max})	:	100 kg up to and including 500 kg
Humidity Class	:	CH
Temperature range	:	-10 °C / +40 °C
Accuracy Class	:	C
Maximum number of load cell intervals (n)	:	5000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	:	20000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	:	5000

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

Each produced load cell is supplied with information about its characteristics.

Minimum dead load	:	0 kg
Safe overload	:	150 % of E_{max}
Rated Output	:	2,0 mV/V ± 0.2 mV/V
Input impedance	:	406 Ω ± 6 Ω
Output impedance	:	350 Ω ± 3 Ω
Recommended excitation	:	5 - 12 V DC/AC
Excitation maximum	:	18 V DC/AC
Transducer material	:	Aluminum-alloy
Atmospheric protection	:	Silicon rubber

1.3 Essential shapes

The load cell is built according to drawing:
- "L6Q Load cells Catalogue for using", drawing number 7969/0-01.

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 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC7969.

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

Appendix

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.	L6Q-C5-100kg-3B6
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	L6Q-C5-100kg-3B6
Creep (20, 40 and –10 °C)	NMi Certin B.V.	L6Q-C5-100kg-3B6
Minimum dead load output return (20, 40 and –10 °C)	NMi Certin B.V.	L6Q-C5-100kg-3B6
Barometric pressure effects at room temperature	NMi Certin B.V.	L6Q-C5-100kg-3B6
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	L6Q-C5-100kg-3B6