Test Certificate
Parts Certificate

Number **TC7692** revision 3
Project number 2487223

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	Anyload Youngzon Transducer (Hangzhou) Co. Ltd. 518,18th Street, Qiantang New Area Hangzhou China
Measuring instrument	A **single point load cell**, with strain gauges, tested as a part of a weighing instrument. Registered trade name : Anyload Designation : 108xA Further properties are described in the annexes: - Description TC7692 revision 3; - Documentation folder TC7692-3. An overview of performed tests is given in the annex: - Description TC7692 revision 3.
Initially issued	24 February 2010
Remark	This revision replaces the earlier versions, except for its documentation folder.

Issuing Authority

NMi Certin B.V.
18 January 2024

Certification Board

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RvA PRODUCTS C 681

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 instrument must be covered by relevant metrological certification that is valid in the country where the instrument is put into use.

1.1 Essential parts

Number	Pages	Description	Remark
7692/1-01	3	Outline 108JA-(500 – 2500)kg	Mechanical
7692/1-02	1	108BA-5kg Outline	Mechanical
7692/1-03	1	108TA-50kg Outline	Mechanical
7692/1-04	1	108 xx Outline	Mechanical
7692/2-01	1	108LAMT Outline	Mechanical
7692/1-05	1	Electrical circuit diagram	Electrical

Cable:
- If the load cell is provided with a 4-wire system:
  - The cable length is mentioned in the accompanying load cell document / on the label;
  - The cable length shall not be modified.
- If 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})	5 kg up to 50 kg	50 kg up to 500 kg	500 kg up to and including 2500 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2,0 mV/V ± 10 %		
Maximum number of load cell intervals (n)	7500	6000	4000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	20000	29000	4000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	7500	8000	7500
Input impedance	415 Ω ± 15 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 ± 10 Ω		
Recommended excitation	5 - 12 V AC / DC		
Excitation maximum	15 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

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7692/2-01	1	108LAMT Outline	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 (2021) and:
- This certificate number TC7692 (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 ER7692 revision 3.