

Test Certificate Parts Certificate

Number **TC8657** revision 2
Project number 2593513
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Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 2017, WELMEC 2.4 Issue 2, OIML R 60 (2017), EN 45501:2015.

Producer
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United Kingdom

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

Registered trade name : Flintec
Designation : RC3
RC3-TS

Further properties are described in the annexes:

- Description TC8657 revision 2;
- Documentation folder TC8657-1.

An overview of performed tests is given in the annex:

- Description TC8657 revision 2.

Remark This revision replaces the earlier versions, except for its documentation folder.

Issuing Authority

NMI Certin B.V.
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Certification Board

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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 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
8657/0-01	1	RC3 series general construction	Mechanical & 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 may be connected to the load cell.

1.2 Essential characteristics

Characterization of load cell capabilities	Analog-passive load cell		
Type designation	RC3		RC3-TS
Maximum capacity (E _{max})	7,5 t up to 25 t	25 t up to and including 100 t	30 t up to and including 40 t
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	1,67 mV/V or 2,00 mV/V		2,00 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	3500	4000	3000
Ratio of minimum LC Verification interval ⁽¹⁾ Y = E _{max} / v _{min}	10000	15000	
Ratio of minimum dead load output return ⁽¹⁾ Z = E _{max} / (2 * DR)	5800	7000	
Input impedance	1150 Ω ± 50 Ω		
Temperature range	-10 °C / +40 °C		
Fraction p _{LC}	0,7		
Humidity Class	CH		
Safe overload	200 % of E _{max}		



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Output impedance	1000 $\Omega \pm 2 \Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically sealed

Remark:

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

1.3 Essential shapes

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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 TC8657 (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 ER8657 revision 2.