

Issued NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993,  
WELMEC 2.4 Issue 2, OIML R 60 (2000).

Producer Mettler-Toledo (Changzhou) Precision Instruments Co. Ltd.  
5 Huashan Road  
213022 Changzhou  
P.R. China

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

Brand : Mettler-Toledo  
Designation : SLB515, SLB815

Further properties are described in the annexes:

- Description TC8758 revision 0;
- Documentation folder TC8758-1.

An overview of performed tests is given in the annex:

- Description TC8758 revision 0.

Issuing Authority **NMI Certin B.V.**  
25 June 2015



C. Oosterman  
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# Description

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Project number SO15201952  
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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
8758/0-01	1	Assembly SLB515	Mechanical
8758/0-02	1	Assembly SLB815	Mechanical
8758/0-03	1	Wiring SLB515, SLB815	Electrical

Cable:

- When 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.
- When The load cell is provided with a 6-wire system (=“Remote-sensing”):
  - The cable length is not limited.

The cable shall be a shielded cable, the shield is, or is not connected to the load cell.

## 1.2 Essential characteristics

Maximum capacity ( $E_{max}$ )	220 kg up to and including 5500 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V
Maximum number of load cell intervals (n)	3000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	11000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000
Input impedance	$380 \Omega \pm 4 \Omega$
Temperature range	-10 °C / +40 °C
Fraction $p_{LC}$	0,7
Humidity Class	CH
Safe overload	150% of $E_{max}$
Output impedance	$350 \Omega \pm 3 \Omega$
Recommended excitation	5 - 15 V DC / AC
Excitation maximum	15 V DC / AC
Transducer material	stainless steel
Atmospheric protection	Hermetically sealed by welding

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

Each produced load cell is provided with an accompanying document with information about its characteristics.

## 1.3 Essential shapes

The load cell is built according to drawing:

Number	Pages	Description	Remark
8758/0-01	1	Assembly SLB515	Mechanical
8758/0-02	1	Assembly SLB815	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 (2000) and:

- This certificate number TC8758 (in the countries where it is mandatory);
- Producers name or mark.



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## 2 Seals

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

## 3 Conditions for conformity assessment

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2 Issue 5 Section 11, at the time of placing on the market.

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. LSfc2014-6003 dated 30 November 2014 that includes 24 pages;
- No. LSfc2014-6004 dated 30 November 2014 that includes 22 pages.

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