Test Certificate
Evaluation Certificate

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993, OIML R60:2000, OIML R76-1:2006, WELMEC 2.4 Issue 2.
Producer	Mettler-Toledo (Changzhou) Precision Instruments Co. Ltd. 5 Huashan Road 213022 Changzhou P.R. China
Measuring instrument	A **shear beam load cell**, with strain gauges, equipped with electronics, tested as a part of a weighing instrument.

Brand   :   Mettler Toledo
Designation   :   SLB615D

Further properties are described in the annexes:
- Description TC8489 revision 0;
- Documentation folder TC8489-1.

An overview of performed tests is given in the annex:
- Description TC8489 revision 0.

Issuing Authority   **NMi Certin B.V.**
24 January 2014

C. Oosterman
Head Certification Board

INSPECTION
RvA I 122

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D e s c r i p t i o n

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 or an EC-type examination Certificate.

1.1 Essential parts

Number	Pages	Description	Remark
8489/0-01	5	Outline drawing	Mechanical
8489/0-02	3	Electronics including pars list	Electrical

1.2 Essential characteristics

Maximum capacity (E_{max})	220 kg up to and including 4400 kg
Minimum dead load	0 kg
Accuracy Class	C
Maximum number of load cell intervals (n)	10000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	22000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	10000
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,8
Humidity Class	CH
Safe overload	150% of E_{max}
Recommended excitation	7,5 V DC
Excitation maximum	12 V DC
Transducer material	Stainless steel
Atmospheric protection	IP 68 or IP69K
Number of counts for E_{max}	$\geq Y * 5 / p_{LC}$
Software identification	As described in TC8039.

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.

Data transmission:
The load cell is equipped with one of the following protective interfaces that have not to be secured:
- RS232;
- CANbus.

Adjustment procedure:
The load cell can be adjusted using a Mettler-Toledo terminal.

1.3   Essential shapes

The load cell is built according to drawing:
- Outline drawing, drawing number 8489/0-01.

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 and R76 recommendation.

In the countries where it is mandatory the load cell bears this certificate number: TC8489.

2   Seals

The serial number of the load cell is stored in the terminal. An error message will appear on the terminal when the load cell is exchanged.

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 putting into use.

Other parties may use this certificate only with the written permission of the producer (WELMEC 8.8).

4   Test reports, evaluation reports and type (pattern) evaluation reports

An overview of performed tests is given in the reports:
- No. LSfc2013-6001 dated 2 July 2013 that includes 33 pages;
- No. LSfc2013-6002 dated 2 July 2013 that includes 16 pages.