CERTIFICATE

Type Examination

(1)

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) Type Examination Certificate Number: **DEKRA 13ATEX0082** Issue Number: **2**

(4) Equipment: **Load Cell models SLB215, SLB415, SLB515 and SLB815**

(5) Manufacturer: **Mettler-Toledo (Changzhou) Measurement Technology Ltd.**

(6) Address: **No. 111 West Taihu Road, Changzhou, Jiangsu, 213125, P.R. China**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report no. 216186400/2 issue 2.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11
EN 60079-11 : 2012
EN 60079-15 : 2010
EN 60079-31 : 2009

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of this equipment.

(12) The marking of the equipment shall include the following:

II 3 G	**Ex ic IIC T4 Gc**
II 3 G	**Ex nA IIC T4 Gc**
II 3 D	**Ex tc IIIC T100 °C Dc**

This certificate is issued on 20 April 2015 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) # SCHEDULE

(14) **to Type Examination Certificate DEKRA 13ATEX0082** Issue No. **2**

(15) **Description**

The Load Cell models SLB215, SLB415, SLB515 and SLB815 are used to convert a mechanical force or load into an electrical signal. The load cell is of a sealed construction and is provided with a permanently connected cable with a maximum length of 6 m.

The enclosure of the load cell provides a degree of protection of at least IP6X in accordance with EN 60529.

Ambient temperature range -40 °C to +50 °C.

The maximum surface temperature T100 °C is based on an ambient temperature of +50 °C.

Electrical data

For the type of protection ic:
Signal and supply:
in type of protection intrinsic safety Ex ic IIC, only for connection to an intrinsically safe circuit, with the following maximum values (combining the parameters of all circuits):
U_i = 20 V; I_i = 600 mA; P_i = 1,25 W; C_i = 1,2 nF; L_i = 6 µH.

The values of C_i and L_i include the capacitance and inductance of the permanently connected cable for a length of maximum 6 m. For longer cables the additional capacitance and inductance has to be taken into account.

For the type of protection Ex nA IIC or Ex tc IIIC:
Signal and supply:
U_n = 20 V.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 216186400/2 issue 2.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 216186400/2 issue 2.