CERTIFICATE

(1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **DEKRA 13ATEX0081** 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., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 number 216186400/1 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**

(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 EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

For marking see section 15.

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

PRODUCTS
RvA C 001

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(13) # SCHEDULE

(14) **to EC-Type Examination Certificate 13ATEX0081** 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.

Marking codes

SLB215 and SLB415
II 2 G Ex ib IIC T4 Gb
II 2 D Ex ib IIIC T100 °C Db

SLB515 and SLB815
II 2 G Ex ia IIC T4 Gb
II 2 D Ex ib IIIC T100 °C Db

Electrical data

Signal and supply:
in type of protection intrinsic safety Ex ib IIC (models SLB215, SLB415), Ex ia IIC (models SLB515, SLB815) and Ex ib IIIC, only for connection to a certified 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.

Installation instructions

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

(16) **Test Report**

No. 216186400/1 issue 2.

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

None.