IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 11.0027X issue No.:0	Certificate history:
Status:	**Current**	
Date of Issue:	**2011-04-08**	Page 1 of 4

Applicant: **Mettler-Toledo (ChangZhou) Measurement Technology Ltd.**
111 West TaiHu Road, Xinbei District,
ChangZhou, JiangSu Province, 213125
China

Electrical Apparatus: **Terminal type IND226x**
Optional accessory:

Type of Protection: **Flameproof enclosure 'd', Equipment protection by intrinsic safety "i", Protection by intrinsic safety 'iD'**

Marking: **Ex ib IIC T4 Gb**
Ex ib IIIC T60 °C Db

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version)

Date: 8/4/2011

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH

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Date of Issue: **2011-04-08** Issue No.: **0**

Manufacturer: **Mettler-Toledo (ChangZhou) Measurement Technology Ltd.**
111 West TaiHu Road, Xinbei District,
ChangZhou, JiangSu Province, 213125
China

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the pressence of combustible dusts - Part 11: Protection by intrinsic safety 'iD'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/BVS/ExTR11.0045/00

Quality Assessment Report:

NL/KEM/QAR08.0052/02

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Description

The weighing terminal is used in potentially explosive atmospheres for input of parameters and in combination with weighing cells for recording and display of weight values.
The electrical components of the terminal are fixed in a metal enclosure. In the cover of the enclosure a keyboard and a display are mounted.
In terminal type IND226x it is possible to install one active interface board (Interface IND) or one passive interface board (Interface Remote). This depends on the application of the weighing indicator. The corresponding part is located within the connected instrument.

Rating / Parameters:

Thermal data		
Ambient temperature range	Ta	-10 °C up to +40 °C
Max. surface temperature T		60 °C
Degrees of protection according to IEC 60529		IP66

CONDITIONS OF CERTIFICATION: YES as shown below:

UV light has to be avoided.
Only cable glands and blanks shall be used which are certified for that purpose.

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EQUIPMENT(continued):

Rating / Parameters (continued):

Electrical data

Power Input (Terminals P1-P9)			
Voltage	Ui	DC 13	V
Internal capacitance	Ci	negligible	
Internal inductance	Li	negligible	

Remark: Current and power have not been mentioned because limiter stages are in the power supply circuit,which limit the input current and the power dissipation in the terminal.

Digital Active Input Port (terminals I1-I2)			
Voltage	Uo	DC 5.4	V
Current	Io	1	mA
Power	Po	1.4	mW
Max. external capacitance	Co	100	nF
Max. external inductance	Lo	0.1	mH

Loadcell Connection (terminals B1-B7)			
Voltage	Uo	DC 5.88	V
Current	Io	156	mA
Power	Po	0.92	W
Max. external capacitance	Co	200	nF
Max. external inductance	Lo	0.3	mH

Optional: active Interface Board (Interface IND) - Option COM4			
Voltage	Uo	DC 5.88	V
Current	Io	144	mA
Power	Po	212	mW
Max. external capacitance	Co	600	nF
Max. external inductance	Lo	0.4	mH

Optional: passive Interface Board (Interface Remote) - Option COM4			
Voltage	Ui	DC 10	V
Current	Ii	300	mA
Power	Pi	500	mW
Internal capacitance	Ci	120	nF
Internal inductance	Li	negligible	