# 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 11.0080 issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2011-12-05** Page 1 of 4

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

Electrical Apparatus: **Communication module type ACM200-*****
*Optional accessory:*

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: **[Ex ib Gb] IIC**
**[Ex ib Db] IIIC**

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

*Position:* Head of Certification Body

*Signature:*
*(for printed version)*

*Date:*

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 EXAM GmbH

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Manufacturer: **Mettler-Toledo (Changzhou) Measurement Technology Ltd.**
111 West TaiHu Road, Xinbei District,
Changzhou, Jiangsu 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 60079-0 : 2011**<br>Edition: 6.0 | Explosive atmospheres - Part 0: General requirements |
| **IEC 60079-11 : 2011-06**<br>Edition: 6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |

*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/ExTR11.0125/00

Quality Assessment Report:

NL/DEK/QAR11.0008/00

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**Schedule**

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

Description

The communication module is an associated apparatus mounted outside the hazardous area and is used, in conjunction with weighing indicators in the hazardous area, for data transmission between the safe and the hazardous area.
The communication module consists of an interface main board fastened inside a metallic enclosure; inside this enclosure a switch mode power supply unit and an additional assembled interface board can also be fastened optionally.
The IS circuits are passive circuits.

**CONDITIONS OF CERTIFICATION: NO**

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**EQUIPMENT(continued):**

Parameters

| | | | | | |
|---|---|---|---|---|---|
| 1 | Non-intrinsically safe circuits | | | | |
| 1.1 | Mains supply | | | | |
| | Type ACM200-AC | | | | |
| | Nominal voltage | | AC | 100 – 240 | V |
| | Max. voltage | Um | AC | 250 | V |
| | Type ACM200-DC | | | | |
| | Nominal voltage | | DC | 12 – 24 | V |
| | Max. voltage | Um | AC | 250 | V |
| | Data output circuit | | | | |
| | Max. voltage | Um | AC | 250 | V |
| 2 | Intrinsically safe interface circuits Level of protection Ex ib IIC | | | | |
| | Voltage | Ui | DC | 10 | V |
| | Current | Ii | | 300 | mA |
| | Power | Pi | | 500 | mW |
| | Internal Capacitance | Ci | | 120 | nF |
| | Internal inductance | Li | | negligible | |
| 3 | Ambient temperature range | | | | |
| | | Ta | | -10 °C up to +40 °C | |