



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 PTB 11.0080X issue No.: 1

Status: **Current**

Certificate history:
Issue No. 1 (2012-2-27)
Issue No. 0 (2011-11-17)

Date of Issue: **2012-02-27** Page 1 of 4

Applicant: **ecom instruments GmbH**
Industriestraße 2, 97959 Assamstadt, Germany
Germany

Electrical Apparatus: **Intrinsically Safe TRUE RMS MULTIMETER**
Optional accessory: Fluke 28 II EX

Type of Protection: **Equipment for explosive atmospheres - General Requirements, Intrinsic Safety,
Electrical apparatus for use in the presence of combustible dust - General
Requirements, Intrinsic Safety**

Marking: Ex ia IIC T4 Gb, Ex ia IIIC T130°C Db, Ex ia I Ma

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Ulrich Johannsmeyer

Position:

Department Head "Intrinsic Safety and Safety of Systems"

Signature:
(for printed version)

Date:

2012-03-08

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](http://www.iecex.com).

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **ecom instruments GmbH**
Industriestraße 2, 97959 Assamstadt, Germany
Germany

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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
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 presence 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/PTB/ExTR11.0087/01](#)

Quality Assessment Report:
[DE/PTB/QAR07.0004/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The FLUKE 28 II EX is a "TRUE RMS MULTIMETER" for measuring voltage, current, resistance and capacitance within (and outside) of potentially explosive atmospheres. It can be used as an EPL Gb equipment in gas hazardous areas of Group II, as an EPL Db equipment in dust explosion hazardous area of Group III and as an EPL Ma equipment in mines susceptible to firedamp of Group I.
Further details see annex.

CONDITIONS OF CERTIFICATION: YES as shown below:

Further details see annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The modifications concern the accessories, the usage of the alligator clips type AC175 and modifications of the internal construction.