



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

Certificate No.:

IECEX ZLM 09.0001X

issue No.: 0

Certificate history:

Status:

Current

Date of Issue

2009-06-11

Page 1 of 3

Applicant:

**ecom instruments GmbH**  
Industriestraße 2  
D-97959 Assamstadt  
Germany

Electrical Apparatus:  
Optional accessory:

**Explosion protected Headset Ex-TRA 300\***

Type of Protection:

**Intrinsic Safety**

Marking:

**Ex ia IIC T4 Gb**  
**Ta: -20°C ... +50°C**

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl.-Ing. Harald Zelm

Position:

Head of Certification Body

Signature:  
(for printed version)

Date:

2009-06-11

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains 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:

**ZELM Explosionsschutz GmbH**  
Siekgraben 56  
D-38124 Braunschweig



# IECEX Certificate of Conformity

Certificate No.: IECEX ZLM 09.0001X

Date of Issue **2009-06-11**

Issue No.: 0

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Manufacturer **ecom instruments GmbH**  
Industriestraße 2  
D-97959 Assamstadt  
**Germany**

Manufacturing location(s):

This certificate is 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** Explosive atmospheres - Part 0: Equipment - General requirements  
*Edition: 5*

**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
*Edition: 6*

*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/ZLM/ExTR09.0001/00

### Quality Assessment Report:

DE/PTB/QAR07.0004/00



# IECEX Certificate of Conformity

Certificate No.: IECEX ZLM 09.0001X

Date of Issue 2009-06-11

Issue No.: 0

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## Schedule

### EQUIPMENT:

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

The explosion protected headset model Ex-TRA 300\* serves as handheld portable equipment at radios inside explosion hazardous areas. The sign "" in the model designation will be replaced by the letter A, B, C, D or E for distinction of the different electrical maximum values. The different models of the equipment are intended for the connection to different radios with the specific electrical data and are equipped with the appropriate connector. The adaptation of the different electrical values is realized by a specific electronic circuit located in the Push-To-Talk bottom (PTT-bottom). The different versions of the Push-To-Talk bottom are combined with alternative headsets. The rearrangement of the appropriate version of the headset by the customer is not permitted.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The electrical data of the appropriate version are referenced in the Annex to this certificate and in the safety instructions provided by the manufacturer. The specific version of the Headset is intended for the connection to an appropriate radio and is equipped with the respective connector. For the correct allocation refer to the safety instructions provided by the manufacturer. The equipment consists of a combination of a Push-To-Talk bottom where also the label is attached and an appropriate headset. Devices with the identical designation may be combined with different headsets. Because the internal electronic is specific designed the combination of the Push-To-Talk bottom with the headset is not allowed to alter by the user.



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**IEC Certification Scheme for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:

IECEX ZLM 09.0001X

issue No.: 1

Status:

Current

Certificate history:

Issue No. 1 (2010-12-10)

Issue No. 0 (2009-06-11)

Date of Issue

2010-12-10

Page 1 of 4

Applicant:

**ecom instruments GmbH**  
Industriestraße 2  
D-97959 Assamstadt  
Germany

Electrical Apparatus:  
*Optional accessory:*

**Explosion protected Headset Ex-TRA 300\***

Type of Protection:

**Intrinsic Safety**

Marking:

**Ex ia IIC T4 Gb**  
**Ta: -20°C ... +50°C**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dipl.-Ing. Harald Zelm

*Position:*

Head of Certification Body

*Signature:  
(for printed version)*

*Date:*

2010-12-10

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**ZELM Explosionsschutz GmbH**  
Siekgraben 56  
D-38124 Braunschweig





# IECEX Certificate of Conformity

Certificate No.: IECEX ZLM 09.0001X

Date of Issue **2010-12-10**

Issue No.: 1

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Manufacturer **ecom instruments GmbH**  
Industriestraße 2  
D-97959 Assamstadt  
**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** Explosive atmospheres - Part 0: Equipment - General requirements  
*Edition: 5*

**IEC 60079-11 : 2006** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
*Edition: 6*

*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/ZLM/ExTR09.0001/00

Quality Assessment Report:

DE/PTB/QAR07.0004/00



# IECEX Certificate of Conformity

Certificate No.: IECEX ZLM 09.0001X

Date of Issue 2010-12-10

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## Schedule

### EQUIPMENT:

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

The explosion protected headset model Ex-TRA 300\* serves as handheld portable equipment at radios inside explosion hazardous areas. The sign "" in the model designation will be replaced by the letter A, B, C, D, E or F for distinction of the different electrical maximum values. The different models of the equipment are intended for the connection to different radios with the specific electrical data and are equipped with the appropriate connector. The adaptation of the different electrical values is realized by a specific electronic circuit located in the Push-To-Talk bottom (PTT-bottom). The different versions of the Push-To-Talk bottom are combined with alternative headsets. The rearrangement of the appropriate version of the headset by the customer is not permitted.

### CONDITIONS OF CERTIFICATION: NO

The special conditions for safe use will not be changed for explosion protected headset models Ex-TRA 300\* with a fixed connection between Push-to-Talk Bottom and the belonging headset, and are also valid for the new model Ex-TRA 300F. For explosion protected headsets Ex-TRA 300\* with a plugable connection between the Push-to-Talk Bottom and the belonging headset the following special conditions shall apply:  
The electrical data of the appropriate version are referenced in the Annex to this certificate and in the safety instructions provided by the manufacturer. The specific version of the Headset is intended for the connection to an appropriate radio and is equipped with the respective connector. For the correct allocation refer to the safety instructions provided by the manufacturer. The equipment consists of a combination of a Push-To-Talk bottom where also the label is attached and an appropriate headset. If headsets of the type NH or FBHS will be used, it is possible to use a plugable connection between the Push-To-Talk bottom and the headset. The opening and closing of the plugable connection is only permitted outside the explosion hazardous area. The plug resp. the plug socket are marked with the headset type. If this marking is not readable or not existing, the connection between the headset and the Push-to-Talk Bottom shall not be done and the equipment shall not be inserted in the explosion hazardous area.



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Issue No.: 1

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

The new model type Ex-TRA 300 F, a pluggable connection for the headsets NH and FBHS and some minor changes of the already certified models were subject of the new issue. The electrical Data are shown in the Annex to this certificate. The special conditions for safe use are changed also.