



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.: issue No.:

Status:

Date of Issue: **2012-10-19** Page 1 of 3

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

Electrical Apparatus: **Intrinsically Safe Headset, type ComCom Ex**
Optional accessory:

Type of Protection: **Ex ib IIC T4 Gb, Ex ib IIIC T130°C Db**

Marking: Ex ib IIC T4 Gb
Ex ib IIIC T130°C Db
IECEX EPS 12.0030X

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

Position:

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

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Certificate No.: IECEx EPS 12.0030X

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Issue No.: **0**

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Manufacturer: **ecom instruments GmbH**
Industriestraße 2
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 : 2011 Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-11 : 2011-06 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

*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/EPS/ExTR12.0039/00](#)

Quality Assessment Report:

[DE/PTB/QAR07.0004/00](#)

[DE/PTB/QAR07.0004/01](#)

[DE/PTB/QAR07.0004/02](#)

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Headset ComCom Ex consists of a combination of an earphone (speaker) and a microphone that are connected via a cable to an associated intrinsic safe receiving device. For the evaluation, the ear phone's internal resistance can be considered to be current-limiting. The ambient temperature range is $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

Connection of the headset to an approved intrinsic safe apparatus:

Intrinsic safety data of the Headset:

$U_i = 4.2 \text{ V}$

$I_i = 330 \text{ mA}$

$P_i = 0.347 \text{ W}$

$R_i = 47 \text{ Ohm}$

$L_i = 4.0 \text{ mH}$

$C_i = \text{negligible}$

Permissible external inductance: $L_o = 2 \text{ mH}$

Permissible external capacitance: $C_o = 4.2 \text{ }\mu\text{F}$

Interconnection: The connection to the headset output of Ex-Handy 0* covered by IECEx CoC no. IECEx EPS 11.0005X is permissible.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$