



# 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 EPS 14.0093X Issue No: 0 Certificate history:  
Issue No. 0 (2014-12-03)

Status: **Current** Page 1 of 3

Date of Issue: **2014-12-03**

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

Electrical Apparatus: **Mobile phone type: Ex-Handy 09 and Smart Ex-01**  
*Optional accessory:*

Type of Protection: **intrinsic safety "I"**

Marking:  
Ex ib IIC T4 Gb IP64  
Ex ib IIIC T135°C Db IP64

Approved for issue on behalf of the IECEx  
Certification Body:

Dieter Zitzmann

Position:

Manager Certification

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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Manufacturer: **ecom instuments GmbH**  
Industriestraße 2  
97959 Assamstadt  
**Germany**

Additional 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** 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/ExTR14.0094/00](#)

Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

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

The explosion protected Intrinsically Safe Smartphones of type Ex-Handy 09 and Smart-Ex 01 are communication devices via quad-band intended for use in hazardous areas of zones 1, 2, 21 and 22. They provide additional features such as cameras (only Smart-Ex 01), GPS, acceleration sensor, Bluetooth, vibration motor, headphone connector, and flashlight. Different integrated antennas can be used for the usual cellular systems including LTE. The permissible ambient temperature range is  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ . The devices are equipped with a not exchangeable integrated Li-Ion battery unit. Charging is done via the "magnetic" USB-connector with the Safety Box SB S01. The "magnetic" USB-connector is device specific and polarity reversal protected. The devices may only be charged outside explosive atmospheres. The wired data transfer is possible via the USB-connector.

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

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

The battery pack is only allowed to be charged outside of the explosive hazardous area via the Safety Box "SB S01".

The device has to be protected against impacts with high impact energy.

Only accessories approved by ecom instruments GmbH may be used or intrinsically safe accessories applying to the relevant entity parameter for the audio jack as stated in document 500055EX05A.