



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 EPS 11.0005X issue No.:2

Status: **Current**

Date of Issue: **2013-03-04** Page 1 of 4

Certificate history:

Issue No. 2 (2013-3-4)
Issue No. 1 (2012-2-27)
Issue No. 0 (2011-10-24)

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

Electrical Apparatus: **Mobile Phone, Ex-Handy 07, Ex-Handy 08**
Optional accessory:

Type of Protection: **Intrinsic safety 'ib'**

Marking: Ex ib IIC T4 Gb IP54
Ex ib IIIB T130°C Db IP5X
Ex ib IIC T4 Gb IP64 (for Ex-Handy 07 of type "IIIC" only)
Ex ib IIIC T130°C Db IP6X (for Ex-Handy 07 of type "IIIC" only)
Ex ib IIC T4 Gb IP64 (for Ex-Handy 08)
Ex ib IIIC T130°C Db IP6X (for Ex-Handy 08)

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Head of 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 instruments GmbH**
Industriestrasse 2
D-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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
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/ExTR11.0007/00](#)

[DE/EPS/ExTR11.0007/01](#)

[DE/EPS/ExTR11.0007/02](#)

Quality Assessment Report:

[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 explosion protected mobile phone of type Ex-Handy 07 is a communication device via quad-band intended for use in hazardous areas of zones 1, 2, 21 and 22 (non-conductive dusts). It provides additional features such as camera, GPS, acceleration sensor, Bluetooth, vibra motor, headphone connector and flashlight. Two different integrated antennas can be used for different frequencies. The permissible ambient temperature range is -20°C to +55°C. The mobile phone can be used with two different battery packs (standard or high capacity) containing one secondary Li-Ion cell each. The battery packs use the same kind of current and power limiting safety circuit. Charging is done without disconnecting the battery pack from the mobile phone via a stereo jack. The battery pack may only be charged outside explosive atmospheres.

CONDITIONS OF CERTIFICATION: YES as shown below:

The battery pack may only be charged outside explosive atmospheres via charging circuit SBH 07 or direct with desktop charger DCH.
The mobile phone needs to be protected from impacts with high impact energy.
The permissible ambient temperature range is -20°C to +55°C.



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

For details in history of changes see also revision 0 and 1. Details Ex-Handy 07 and "IIIC" version.
Addition of model Ex-Handy 08. Technically based on Ex-Handy 07, offering additional features and a more diverse range of functionalities, such as UMTS 850/1900/2100. The Ex-Handy 08 can only be fitted with the battery pack labeled "Ex-BPH 08 xx".

Features / type	Ex-Handy 07	Ex-Handy 07, „IIIC“ version	Ex-Handy 08
Allowed battery packs:	Ex-BPH 07 SC (standard capacity) and Ex-BPH 07 HC (high capacity)	Ex-BPH 17 SC and Ex- BPH 17 HC	Ex-BPH 08 xx
Permitted charging:	Charging without disconnecting the battery pack from the mobile phone via the Safety box "SBH 07" or with a disconnected battery pack via the desktop charger "DCH" – charging outside Ex- area	Charging without disconnecting the battery pack from the mobile phone via the Safety box "SBH 07" or with a disconnected battery pack via the desktop charger "DCH" – charging outside Ex- area	Charging without disconnecting the battery pack from the mobile phone via the Safety box "SBH 07" or with a disconnected battery pack via the desktop charger "DCH" – charging outside Ex- area
Certified ingress protection:	IP54 / IP5X	IP64 / IP6X	IP64 / IP6X
Permitted use in zones:	1, 2, 21 and 22 (non- conductive dusts)	1, 2, 21 and 22 (conductive dusts)	1, 2, 21 and 22 (conductive dusts)

Also minor changes were made to the basic circuit design of Ex-Handy 07 and intrinsic safety values.