



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 13.0044X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 [Issue No. 1 \(2014-07-16\)](#)
Date of Issue: **2014-07-16** [Issue No. 0 \(2013-12-11\)](#)

Applicant: **i.safe MOBILE GmbH**
i_PARK TAUBERFRANKEN 14
D-97922 Lauda-Koenigshofen
Germany

Equipment: **INNOVATION 2.0 and 2.1**
Optional accessory:

Type of Protection: **ib**

Marking:
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X

*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](#).

Certificate issued by:

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





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Manufacturer: **i.safe MOBILE GmbH**
i_PARK TAUBERFRANKEN 14
D-97922 Lauda-Königshofen
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/ExTR13.0047/01](#)

Quality Assessment Report:

[DE/EPS/QAR12.0003/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The intrinsically safe smartphone INNOVATION 2.0 and 2.1 is designed for voice and data communications in explosion hazardous areas of zone 1, 2, 21 and 22. It is equipped with cameras (only type 2.0), GPS, Dual-SIM, Bluetooth, touchscreen, PTT, optional lone worker protection and NFC technology. The software is based on the Android-operating system.
The permitted ambient temperature is -20°C to $+60^{\circ}\text{C}$.

The power supply of the smartphone consists of a battery pack mounted on the back of the phone. The battery pack contains a Li-ion cell and a current and power-limiting safety circuit. The battery pack is charged, without being removed, via an USB jack in the base unit or with two charging contacts on the bottom of the device.

The smartphone may only be used with the intrinsically safe battery pack BPI02A made by i.safe MOBILE GmbH. $U_0 = 3,8\text{ V}$
($U_{0_max} = 4,2\text{V}$), $I_0 = 1,2\text{ A}$, $P_0 = 4,56\text{ W}$

The smart phone features an USB interface for charging and data transfer. Connection is only allowed outside ex-hazardous areas and only with the i.safe MOBILE i.safe PROTECTOR USB-cable or other accessories specified by i.safe MOBILE GmbH. Opening the interface covers in explosive atmospheres is not permitted.

Difference between the two versions 2.0 and 2.1:

Version 2.0 is provided with two cameras.

Version 2.1 does not have a camera.

CONDITIONS OF CERTIFICATION: YES as shown below:

The battery pack may be changed or charged outside ex-hazardous areas only. The test for impact according to IEC 60079-0 Clause 26.4.2 was done only with low impact energy. The device must be protected from impacts with high impact energy.

The permitted ambient temperature is -20°C to $+60^{\circ}\text{C}$.



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

Addition of new enclosure material and update of new standards.