



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 19.0041X

Issue No: 0

Certificate history:

Issue No. 0 (2019-05-10)

Status: **Current**

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Date of Issue: **2019-05-10**

Applicant: **i.safe MOBILE GmbH**
i_Park Tauberfranken 10
97922 Lauda-Königshofen
Germany

Equipment: **IS520.M1 Intrinsically safe smartphone**

Optional accessory:

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

Marking:
Ex ia I Ma IP64

Approved for issue on behalf of the IECEX
Certification Body:

Holger Schaffer

Position:

Manager certification

Signature:
(for printed version)

Date:

2019-05-10



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: **i.safe MOBILE GmbH**
i_Park Tauberfranken 10
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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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/ExTR19.0040/00](#)

Quality Assessment Report:

[DE/EPS/QAR12.0003/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The intrinsically safe, rugged industrial smartphone IS520.M1 has been designed for use in mines susceptible to firedamp. The smartphone provides numerous technologies like 4G (LTE), NFC, GPS, Wi-Fi and Bluetooth LE. Equipped with an SD card, changeable battery, 2 cameras (optional), amplified speaker, magnetic charging port and side keys, which allows the allocation of user specific functions or applications.

Electrical data:

Power supply: The smartphone may only be used with the intrinsically safe battery pack BPIS520.M1 made by i.safe MOBILE GmbH.
Li-Ion battery $U_0 = 3.8 \text{ V}$ ($U_{0_max} = 4.35 \text{ V}$) / 3.6 Ah / 13.68 Wh

Interface: The smartphone has an USB interface for charging and data transfer and additional magnetic charging port contacts on the side for charging. The opening of the USB interface cover in explosive hazardous atmospheres is not permitted.
Wired data connection and charging is only allowed outside explosion hazardous areas and only with the i.safe PROTECTOR cable from i.safe MOBILE GmbH or other accessories specified by i.safe MOBILE GmbH.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The battery may only be charged outside explosion hazardous areas.

The device must be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic charge processes.

The device shall be protected from the exposure of oils, greases and hydraulic fluids.

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