



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx EPS 22.0076X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2023-03-20)

Issue 0 (2022-12-19)

Date of Issue: 2025-10-13

Applicant: **i.safe MOBILE GmbH**  
i\_Park Tauberfranken 10  
97922 Lauda-Koenigshofen  
Germany

Equipment: **IS540.1 intrinsically safe Smartphone**

Optional accessory: Headsets IS-HS2A.1, IS-HDHS1x.1

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

Marking: Ex ib IIC T4 Gb

Ex ib IIIC T135°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

Signature:  
(for printed version)

Date:  
(for printed version)



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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-Koenigshofen  
**Germany**

Manufacturing  
locations:

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 equipment 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 60079-11:2023** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:7.0

This Certificate **does not** indicate compliance with 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/ExTR22.0072/02**

Quality Assessment Report:

**DE/EPS/QAR12.0003/17**





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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The intrinsically safe 5G smartphone IS540.1 for Zone 1/21 is equipped with a 6-inch full HD display, supports multiple frequency bands and also NFC, Bluetooth 5.2 and Wi-Fi 6. The high-end Qualcomm chipset ensures fast data processing for the most demanding industrial applications such as predictive maintenance. The 16-pin ISM interface provides a secure connection for audio accessories, barcode scanner or other add-ons. Other advantages include the 48 MP main camera, an amplified loudspeaker, a replaceable 4400 mAh battery and programmable buttons (for PoC/PTT/lone worker protection/SOS).

## Electrical data:

Power supply: changeable Li-Ion Polymer Battery

## Interfaces:

The device has two charging contacts that allow the device to be charged outside hazardous areas via an approved charging adapter. The contacts are intrinsically safe for gas and dust.

Furthermore, the device has an USB-C interface for charging and data transmission outside hazardous areas. It is covered by an IP plugger and is not allowed to be opened in hazardous areas.

The ISM interface of the IS540.1 can be used within hazardous areas with approved headsets, Remote Speaker Microphones (RSM) and add-ons, making the smartphone a multifunctional equipment for industrial applications. For ISM interface use, the i.safe MOBILE Headsets IS-HS2A.1, IS-HDHS1x.1 and the PTT Button IS-PTTB1A.1 or approved, intrinsically safe accessories may be used, which comply with the connection parameters of the ISM interface according to document 1058AD04. If the ISM interface is not used, it must be securely closed by the cover provided for this purpose.

Headset variants IS-HDHS1x.1:

Name:	Variant:
IS-HDHS1A.1	Headband
IS-HDHS1B.1	Neckband
IS-HDHS1C.1	Helmet Mounted

For charging and wired data transmission only i.safe MOBILE approved accessories may be used. This ensures  $U_m = 5.88 \text{ V}$ .

The microSD cards IS-SD164.1 and IS-SD1128.1 may be used in the corresponding slot in the hazardous area. Alternatively, the SD card port has the following intrinsic safety entity parameters:

$U_o = 4.35 \text{ V}$   
 $C_o = 80 \text{ }\mu\text{F}$   
 $L_o = 1 \text{ }\mu\text{H}$

A commercially available microSD card may be used in the corresponding slot in potentially explosive atmospheres. The internal electrical capacitance and inductance are negligible, respectively correspond to the intrinsically safe connection parameters.

Nano-SIM cards which comply with the following intrinsic safety entity parameters, may be used in the corresponding slots in the hazardous area:

$U_o = 4.35 \text{ V}$   
 $C_o = 80 \text{ }\mu\text{F}$   
 $L_o = 1 \text{ }\mu\text{H}$

A commercially available nano-SIM card may be used in the corresponding slot in potentially explosive atmospheres. The internal electrical capacitance and inductance are negligible, respectively correspond to the intrinsically safe connection parameters.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

The battery may be charged and replaced outside explosion hazardous areas only.

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

The covers for the USB-C and ISM interface must be securely closed inside explosion hazardous areas.

The permitted ambient temperature range is  $-20 \text{ }^{\circ}\text{C}$  to  $+55 \text{ }^{\circ}\text{C}$ .



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Minor technical changes and update of standard.