



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

Certificate No.: **IECEx EPS 25.0059X**

Page 1 of 5

Certificate history:

Status: **Current**

Issue No: 1

Issue 0 (2025-12-02)

Date of Issue: 2026-03-02

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

Equipment: **IS541.1 intrinsically safe Smartphone**

Optional accessory:

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

Marking: Ex ia IIC T4 Gb
Ex ia IIIC T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 25.0059X**

Page 2 of 5

Date of issue: 2026-03-02

Issue No: 1

Manufacturer: **i.safe MOBILE GmbH**
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

Manufacturing
locations: **i.safe MOBILE GmbH**
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

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/ExTR25.0062/01

Quality Assessment Report:

DE/EPS/QAR12.0003/17



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 25.0059X**

Page 3 of 5

Date of issue: 2026-03-02

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The intrinsically safe 5G smartphone IS541.1 for Zone 1/21 is equipped with a 6-inch full HD display, supports multiple frequency bands incl. 450 MHz 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).

The permitted ambient temperature range is -20 °C to +55 °C.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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

The device may be connected outside potentially explosive areas for charging or data exchange to commercially available USB interfaces with a maximum nominal value of 5 V, which comply with SELV, PELV, ES1 or a comparable standard. This ensures $U_m \leq 5.88$ V.

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.



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 25.0059X**

Page 4 of 5

Date of issue: 2026-03-02

Issue No: 1

Equipment (continued):

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 a 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 IS541.1 has a removable 450 MHz antenna.

The ISM interface of the IS541.1 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, the PTT Button IS-PTTB1A.1, the Remote Speaker Microphone IS-RSM3A.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

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.



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 25.0059X**

Page 5 of 5

Date of issue: 2026-03-02

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of ambient temperature range.