

## Certificate of Conformity

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) Certificate Number

**EPS 23 ATEX 1 250 X**

**Revision 1**

(4) Equipment: IS440.2, EdgeTwo 5G Radio

(5) Manufacturer: i.safe MOBILE GmbH

(6) Address: i\_Park Tauberfranken 10  
97922 Lauda-Koenigshofen  
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 24TH0337.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-11:2012**

**IEC 60079-11:2023**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 3G Ex ic IIC T4 Gc

II 3D Ex ic IIIC T135°C Dc



Certification department of explosion protection

Tuerkheim, 2025-03-17

Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **Certificate of Conformity EPS 23 ATEX 1 250 X**

**Revision 1**

(15) Description of equipment:

The intrinsically safe IS440.2, EdgeTwo 5G Radio for Zone 2/22 is equipped with a 2.4-inch 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 8-pin ISM interface provides a secure connection for audio accessories or other add-ons. Other advantages include the 8 MP camera, an amplified loudspeaker, a replaceable battery (2400 mAh or 4800 mAh) and programmable buttons (for PoC / PTT / lone worker protection / SOS).

### Electrical data:

**Power supply:** Li-Ion Polymer Battery

### **Interfaces:**

Dust atmosphere (EPL Dc):

The device may only be charged outside explosion hazardous dust areas.

Gas atmosphere (EPL Gc):

If the device is just used in gas areas requiring II 3G Ex ic IIC T4 Gc, charging also in hazardous locations is allowed via the external charging contacts with charging equipment approved by i.safe MOBILE GmbH.

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 IS440.2 and EdgeTwo can be used within hazardous areas with approved headsets and add-ons, making the smartphone a multifunctional equipment for industrial applications. For ISM interface use, the i.safe MOBILE Headsets IS-HS3A.1, PTT Button IS-PTTB2A.1 and IS-HDHS1x.1, IS-HDHS2x.1 or approved, intrinsically safe accessories may be used, which comply with the connection parameters of the ISM interface according to document 1064AD04.

Headset variants IS-HDHSxx.1:

Name:	Variants:
IS-HDHSxA.1	Headband (stereo)
IS-HDHSxB.1	Neckband (stereo)
IS-HDHSxC.1	Helm Mounted (stereo)

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

$U_o = 5.88 \text{ V}$   
 $C_o = 40 \text{ }\mu\text{F}$   
 $L_o = 1 \text{ }\mu\text{H}$

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.

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Revision 1

(16) Reference number: 24TH0337

(17) Special conditions for safe use:

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

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

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

The battery may be replaced outside explosion hazardous areas only.

The device may be charged inside explosion hazardous gas areas (EPL Gc) via the external charging contacts with charging equipment approved by i.safe MOBILE GmbH. To ensure safety, the following conditions must be fulfilled:

- All gaskets of the device must be present and functional.
- The device may only be charged at temperatures between 0 °C to +45 °C.
- The device must be checked regular for changes and signs of faults.
- The connected charging voltage must ensure  $U_m = 5.88 \text{ V}$  and  $I_i = 3.4 \text{ A}$  for the device.

The manual (safety instructions) must be observed strictly

(18) Essential health and safety requirements:

Met by compliance with standards.



Tuerkheim, 2025-03-17