

(1) **EU - Type Examination Certificate**

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

(3) EU - Type Examination Certificate Number

EPS 24 ATEX 1 010 X

Revision 0

(4) Equipment: IS940.1 / IS945.1 intrinsically safe tablet

(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 and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies 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. The examination and test results are recorded in the confidential documentation under the reference number 24TH0128.

(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 EU - Type Examination Certificate relates only to the design and 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 2G Ex ib IIC T4 Gb

II 2D Ex ib IIIC T135°C Db



Certification department of explosion protection

Tuerkheim, 2024-08-29

Ulrich Feike



(13)

Annex

(14) **EU - Type Examination Certificate EPS 24 ATEX 1 010 X**

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(15) Description of equipment:

The intrinsically safe tablet IS940.1 (Android operating system) / IS945.1 (Windows operating system) for Zone 1/21 is equipped with a 10.1-inch display, supports NFC, Bluetooth 5.2 and Wi Fi 6. The high-quality Qualcomm chipset ensures fast data processing for the most demanding industrial applications such as predictive maintenance. The 12-pin docking interface offers a convenient charging and data connection. The 16-pin ISM interface ensures a secure connection of audio accessories or other add-ons. Further advantages are the high-resolution main camera, the powerful speakers, a replaceable battery and programmable buttons (e.g. for quick access or lone worker protection applications (SOS)).

Electrical data:

Power supply: Changeable Li-Ion battery (4.2 V)

Interfaces:

The device has a 12-pin docking interface for the IS-DS940.1 docking station for charging and data transfer outside hazardous areas.

The entity parameters are defined in document 1065AD05.

The 12-pin docking interface can remain open inside hazardous areas. The optional cover for this serves as protection against pollution.

The device also has a USB-C interface, which is also used for charging and data transfer outside hazardous areas. Only the i.safe PROTECTOR 2.0, other accessories approved by i.safe MOBILE or other accessories that ensure $U_m = 5.88 \text{ V}$ may be connected to the USB-C interface.

The device's 16-pin ISM interface can be used within hazardous areas with approved audio accessories and add-ons.

The following accessories may be connected to the 16-pin ISM interface:

- IS-HS2A.1 in-ear headset
- IS-PTTB1A.1 PTT button with the IS-HDHS1x.1 headset
- Approved, intrinsically safe accessories that comply with the entity parameters of the 16-pin ISM interface in accordance with document 1065AD04

Headset variants IS-HDHS1x.1:

- IS-HDHS1A.1 Headband (Stereo)
- IS-HDHS1B.1 Neckband (Stereo)
- IS-HDHS1C.1 Helmet mount (Stereo)

The microSD cards IS-SD164.1 and IS-SD1128.1 may be used in the corresponding slot in potentially explosive atmospheres. Alternatively, the SD card connection has the following intrinsically safe connection parameters:

$U_o = 5.88 \text{ V}$

$C_o = 25 \mu\text{F}$

$L_o = 1 \mu\text{H}$

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A commercially available microSD card can be used in hazardous areas in the corresponding slot. The internal electrical capacitance and inductance are negligible and match the intrinsically safe connection parameters.

A nano SIM card that complies with the following intrinsically safe entity parameters may be used in the corresponding slot in the hazardous areas:

$U_o = 5.88 \text{ V}$
 $C_o = 41 \text{ }\mu\text{F}$
 $L_o = 1 \text{ }\mu\text{H}$

A commercially available nano SIM card can be used in hazardous areas in the corresponding slot. The internal electrical capacitance and inductance are negligible and match the intrinsically safe entity parameters.

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(17) Special conditions for safe use:

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 USB-C interface is protected by an IP interface cover and may only be opened outside the hazardous areas.

The 16-pin ISM interface must be closed with the corresponding cover when not in use in hazardous areas.

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

(18) Essential health and safety requirements:

Met by compliance with standards.

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Tuerkheim, 2024-08-29

Ulrich Feike

