Automated Control
SENSE | MONITOR | CONTROL

i.safe MOBILE
PREMIUM PARTNER

IS945.M1

SAFETY INSTRUCTIONS

i.safe MOBILE

CONTENTS

IS945.M1 | MODEL M945A01
Document No. 1088MM02REV00
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Template: TEMPMM01REV10

www.isafe-mobile.com/en/support/downloads

EX MARKINGS

› **ATEX:**
Ⓔx I M1 Ex ia I Ma
Ⓔx II 2G Ex ib IIC T4 Gb
Ⓔx II 2D Ex ib IIIC T135°C Db
EU Type Examination Certificate:
EPS 25 ATEX 1 003 X
CE-designation: CE 2004

› **IECEx:**
Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db
IECEx Certificate: IECEx EPS 25.0003X

› **ANZEx:**
Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db
ANZEx Certificate: ANZEx 25.2005X

› **IA (South Africa):**
Ex ia I Ma
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db
IA Certificate: MTEx-MS/25.0351 X

› **Temperature range:**
-20 °C ≤ Ta ≤ +55 °C (EN/IEC 60079-0)
-10 °C … +55 °C (EN/IEC 62368-1)

› **Manufactured by:**
i.safe MOBILE GmbH
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

ENGLISH

Read these **Safety Instructions** and the **Operating Manual** carefully before using the device. If you do not follow these instructions or do not understand them, this could lead to death, severe injuries and damage to the device. You can find the current Operating Manual at **www.isafe-mobile.com/en/support/downloads**

Only trained users who are qualified in the use of Ex devices in explosion hazardous areas and who have read and understood the Operating Manual may use this device.

» Follow all instructions given on the device and on the packaging.

» Follow local safety regulations.

» Only use the device in explosion hazardous areas of zones 1/21, 2/22, M1 and M2 or outside of explosion hazardous areas.

» Before entering an explosion hazardous area with the device,
- make sure that only approved accessories are connected to the device,
- make sure that no gap can be seen between the two halves of the device,
- make sure the device is not damaged,
- make sure that all the labels on the device are readable,
- make sure that only the battery supplied or an approved replacement battery is installed in the device,
- make sure that the battery is not damaged,
- make sure the battery is screwed tight.

» If you use the device in an explosion hazardous area,
- do not loosen the screws on the device,
- do not connect any accessories to the device,
- do not open any interface cover,
- do not charge the device via USB-C or 16-pin ISM interface,
- do not open the device,
- do not damage the device.

» Switch off the device immediately and leave the explosion hazardous area without delay if
- malfunctions occur on the device,
- you have damaged the housing of the device,
- you have exposed the device to excessive loads,
- the device has been stored improperly,
- the labels on the device are no longer readable.

» Do not modify the device structurally.

» Do not expose the device to high temperatures.

» Do not expose the device to strong UV radiation.

» Do not expose the device to processes with high electrical charges.

» Do not expose the device to aggressive acids or bases.

» Do not touch the display with sharp objects.

» Protect the device and the Power Adapter from strong electrical magnetic fields as for example those emitted by induction cookers or microwave ovens, for example.

» Protect the device from oils, greases and hydraulic fluids.

» Protect the device from high mechanical hazards, strong UV radiation and highly electrically charging processes.

» Only use accessories approved by **i.safe MOBILE GmbH**.
» Do not open the device or carry out any repairs yourself.
» Do not use the device in places where its use is prohibited.
» Turn off the device in clinics or other medical facilities.
» Always keep a safety distance of at least 15 cm between the device and a pacemaker or hearing aid. The device can affect the functioning of medical devices such as pacemakers and hearing aids.
» When using the device while driving a motor vehicle, be sure to comply with applicable national laws.
» When using earphones or headsets at the maximum volume setting, first set the volume control on the device to 50 % of the maximum volume. Gradually adjust the volume.
» Only charge the device using the **i.safe PROTECTOR 2.0** USB-C Cable supplied or other charging equipment approved by **i.safe MOBILE GmbH**.
» Only charge the device at ambient temperatures between 0 °C to +45 °C (+32 °F to +113 °F).
» Do not charge the device in the vicinity of flammable substances.

CHARGING VIA THE USB-C OR 16-PIN ISM INTERFACE

» Only charge the device under dry indoor conditions.
» Do not charge the device in environments dusty or humid.
» If you use a third-party USB power supply unit, note the following:
- The third-party USB power supply unit must comply with applicable country regulations and international and regional safety standards.
- The third-party USB power supply unit must have a minimum output of 10 W to 15 W to ensure the specified charging rates. The device does not support USB PD fast charging.
- Even if you use a third-party USB power adapter, only charge the device using the **i.safe PROTECTOR 2.0** USB-C Cable supplied.

CHARGING VIA THE DOCKING STATION IS-DS940.1

See **IS-DS940.1** Operating Manual at **www.isafe-mobile.com/en/support/downloads**

EX-RELEVANT SAFETY REGULATIONS

Use of this device assumes that the operator observes the conventional safety regulations and has read and understood Operating Manual, Safety Instructions and certificate.

When used in explosion hazardous areas, the following Safety Instructions must also be complied with:

COVERS

» Inside explosion hazardous areas the covers of the 16-pin ISM interface and the USB-C interface must be closed.
» The 12-pin docking interface does not have to be covered within explosion hazardous areas. When not in use, it is recommended to protect the 12-pin docking interface from dirt.

ACCESSORIES

» Within explosion hazardous areas, the following accessories may be used when connected to the 16-pin ISM interface:
-the Headset **IS-HS2A.1**
-the PTT Button **IS-PTTB1A.1** together with the Headset **IS-HDHS1x.1**
-other accessories approved by **i.safe MOBILE GmbH**.

» If the PTT Button **IS-PTTB1A.1** is connected to the 16-pin ISM interface of the device together with the Headset **IS-HDHS1x.1**, the Nexus® connection between the **IS-PTTB1A.1** and the Headset **IS-HDHS1x.1** can be disconnected and reconnected inside explosion hazardous areas. When using the **IS-PTTB1A.1** without the Headset **IS-HDHS1x.1**, the unused Nexus®-jack of the **IS-PTTB1A.1** may remain open inside explosion hazardous areas. When not in use, it is recommended to protect the Nexus®-jack from dirt.

» When using accessories with hook and loop fasteners (e.g. Headset **IS-HDHS1B.1**), the hook and loop fastener may only be adjusted outside explosion hazardous areas.

» The 16-pin ISM connector of the accessory must be securely fastened to the 16-pin ISM interface.

» It is allowed to connect the Docking Station **IS-DS940.1** or accessories approved by **i.safe MOBILE GmbH** within explosion hazardous areas to the 12-pin docking interface.

IP-PROTECTION

» To ensure the IP-protection, it has to be ensured that all gaskets are present and functional. There must be no large gap between the battery and housing.

CHARGING

» The **i.safe PROTECTOR 2.0** USB-C Cable, other accessories approved by **i.safe MOBILE GmbH** or other accessories that ensure U_m = 5,88 V may be connected to the USB-C interface outside explosion hazardous areas for charging or data connection.

» The device may only be charged at temperatures between 0 °C to +45 °C (+32 °F to +113 °F).

SIM- AND SD CARDS

» Nano-SIM cards which comply with the intrinsic safety entity parameters mentioned in the certificate, may be used in the corresponding slot in the hazardous area.

» The microSD cards type **IS-SD164.1** and **IS-SD1128.1** or microSD cards which comply with the intrinsic safety entity parameters mentioned in the certificate, may be used in the corresponding slot in the hazardous area.

CONDITIONS OF USE

» The battery may be replaced outside explosive 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 device may not be exposed to any aggressive acids or alkalis.

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

» The permitted ambient temperature range is -20 °C to +55 °C (-4 °F to +131 °F).

» The device may only be used in zones 1, 2, 21, 22, M1 or M2.

FAULTS AND DAMAGES

If there is any reason to suspect that the safety of the device has been compromised, it must be withdrawn from use and removed from any ex-hazardous areas immediately.
Measures must be taken to prevent any accidental restarting of the device. The safety of the device may be compromised, if, for example:

- Malfunctions occur.
- The housing of the device shows damage.
- The device has been exposed to excessive loads.
- The device has been stored improperly
- Markings or labels on the device are illegible.

We recommend that a device displaying errors or in which an error is suspected be sent back to **i.safe MOBILE GmbH** to be checked.

BATTERY

The battery contains flammable materials such as organic solvents. Mishandling the battery may cause fire, smoke or an explosion. This poses a risk of death and serious injury!

The following must be observed:

- If the device is used daily, the battery should be replaced 2 years after first use, but at the latest after 500 charging cycles or when the operating time has been significantly reduced.
- The battery must not be used if there are noticeable abnormalities, such as smell, heat, discoloration or deformity.
- A leaking battery must not be used and touched.
- The battery must not be used or placed near an open flame, heater or high Temperature (above 80 °C (176 °F)).
- The battery must not be used where static electricity in excess of 100 V is generated.
- The battery must not be immersed in liquid such as water, beverages or other fluids.
- The battery must not be placed in or near a microwave or other cooking appliances.
- The battery must not be used in devices for which it was not intended.
- No short-circuit must be applied to the battery.
- The battery must not be exposed to excessive impacts.
- The battery must not be penetrated with a nail or strike with a hammer.
- The battery must not be disassembled.
- The battery must be packed securely in a case or carton for transport.
- The battery must not be charged in the vicinity of flammable substances.
- The battery must only be charged using the charging equipment approved by **i.safe MOBILE GmbH**.
- The battery must only be charged at ambient temperatures between 0 °C to +45 °C (+32 °F to +113 °F).
- CHARGING VIA THE USB-C OR 16-PIN ISM INTERFACE: The battery must only be charged under dry indoor conditions. The battery must not be charged in environments dusty or humid.
- If the battery is not to be used for a longer period of time, it must be removed from the device. The battery must be charged to approx. 50 % to 70 % every 3 to 6 months to avoid deep discharge.

» The battery must be stored in a cool, dry place to keep it functional.
» The battery must not be stored with any metal objects.
» The battery must not be thrown away with household waste.
» The battery must be recycled to local rules and regulations.

SAR

The SAR limit of Europe is 2,0 W/kg for the body at 5 mm. The SAR limit of Europe is 4,0 W/kg for the limbs at 0 mm. The device has been tested against this SAR limit. The highest SAR value reported under this standard during product certification for limbs is 1,131 W/kg. This device was tested for typical body worn operations with the back of the handset kept 0 mm from the body. Belt clips, holsters and similar accessories used should not contain metallic components in the assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided.

WI-FI WARNING

FREQUENCY BAND: 5150 - 5250 MHZ:

» Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted.
» Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 - 5250 MHz band.

FREQUENCY BAND: 5250 - 5350 MHZ:

» Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted.
» Outdooruse is not permitted. Operation of WAS/RLAN installations in large aircraft (excluding multi-engined helicopters) is permitted until 31 December 2028.

FREQUENCY BAND: 5470 - 5725 MHZ:

» Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.
» Operation of WAS/RLAN installations in large aircraft (excluding multi-engined helicopters), except in the frequency band 5600 - 5650 MHz, is permitted until 31 December 2028.

SOUND PRESSURE WARNING

When using earphones or headsets

» First set the volume control on the device to 50 % of the maximum volume.
» Gradually adjust the volume.

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i.safe MOBILE
PREMIUM PARTNER

CONTACT/SERVICE CENTRE

FOR FURTHER QUESTIONS PLEASE CONTACT OUR SERVICE CENTRE:

» **i.safe MOBILE GmbH,** i_Park Tauberfranken 10, 97922 Lauda-Koenigshofen, Germany
» **support@isafe-mobile.com**
» **https://support.isafe-mobile.com**

EU Declaration of Conformity
EU-Konformitätserklärung

according to directive 2014/34/EU, 2014/53/EU, 2011/65/EU (2015/863/EU)
nach Richtlinie 2014/34/EU, 2014/53/EU, 2011/65/EU, 2015/863/EU)

The company i.safe MOBILE GmbH declares under its sole responsibility that the product to which this declaration relates is in accordance with the provisions of the following data, directives and standards:
Die Firma i.safe MOBILE GmbH erklärt in alleiniger Verantwortung, dass Ihr Produkt, auf welches sich diese Erklärung bezieht, den nachfolgenden Daten, Richtlinien und Normen entspricht:

Name & address of the manufacturer in the EU *Name & Anschrift des Herstellers innerhalb der europäischen Gemeinschaft*	i.safe MOBILE GmbH i_Park Tauberfranken 10 97922 Lauda – Koenigshofen Germany
Description of the device *Beschreibung des Geräts* Accessories *Zubehör*	Explosion protected Tablet *Explosionsgeschütztes Tablet* Type / *Typ*: IS945.M1 Model / *Modell*: M945A01 Battery *Batterie* Type / *Typ*: BPIS945A.M1A Model / *Modell*: MBP940AA01 Power supply unit / *Netzteil*: ICP12-050-2000B USB-C cable / *USB-C-Kabel*: i.safe PROTECTOR 2.0 Docking Station / *Dockingstation*: IS-DS940.1
Ex – marking *Ex – Kennzeichnung*	Ⓔx I M1 Ex ia I Ma Ⓔx II 2G Ex ib IIC T4 Gb Ⓔx II 2D Ex ib IIIC T135°C Db
Type examination certificate 2014/34/EU issued by *Baumusterprüfbescheinigung 2014/34/EU ausgestellt durch* Applied harmonized standards *Angewandte harmonisierte Standards*	EPS 24 ATEX 1 003 X Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86842 Tuerkheim, Germany identification number / *Kenn-Nummer*: 2004 EN IEC 60079-0:2018; EN 60079-11:2012; IEC 60079-11:2023
Conformity statement 2014/53/EU *Konformitätsaussage 2014/53/EU*	EN IEC 62368-1:2020+A11:2020; EN 50332-1:2013; EN 50332-2:2013; EN 50566:2017+A1:2023; EN 62209-2:2010+A1:2019; EN 50663:2017; EN62479:2010; EN 301 489-1 V2.2.3; EN 301 489-3 V2.3.2; EN 301 489-17 V3.3.1; EN 301 489-19 V2.2.1; EN 301 489-52 V1.3.1; EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A2:2024; EN IEC 61000-3-3:2013+A2:2021; EN 55035:2017+A11:2020;

	ETSI EN 300 328 V2.2.2; ETSI EN 301 893 V2.1.1; ETSI EN 300 440 V2.2.1; EN 301 908-13 V13.2.1; Draft ETSI EN 301 908-25 V15.1.1; ETSI EN 301 908-1 V15.2.1; ETSI EN 303 413 V1.2.1; ETSI EN 300 330 V2.1.1 EN 18031-1:2024 EN 18031-2:2024 EN IEC 62680-1-3:2022
Conformity statement 2015/863/EU amending 2011/65/EU *Konformitätsaussage 2015/863/EU ergänzt 2011/65/EU*	IEC 62321-2:2021; IEC 62321-1:2013; IEC 62321-3-1:2013; IEC 62321-4:2013+A1:2017; IEC 62321-5:2013; IEC 62321-7-1:2015; IEC 62321-7-2:2017; IEC 62321-12:2023; IEC 62321-6:2015; IEC 62321-8:2017
CE Marking *CE-Kennzeichnung*	CE 2004

Lauda – Koenigshofen 07.01.2026

Dirk Amann
Managing Director
Geschäftsführer

ISAFE-MOBILE.COM