

MultiPEN

Quick start manual safety instructions



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1 Introduction

This document contains information and safety regulations which are to be observed without fail for safe operation of the device under the described conditions. Non-observance of this information and instructions can have serious consequences and/or may violate regulations.

Please read the manual and these safety instructions before using the device.

In case of contradicting information, the text of these safety instructions shall apply.

The EU-declaration of conformity, certificates, safety instructions and manuals can be requested from AXEM technology.

2 Reservation

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3 Specifications

The MultiPEN is a device suitable for use in potentially explosive atmospheres classified as zones 1, 2, 21, 22 in accordance with directives 2014/34/EU and 2014/53/EU, as well as the IECEx scheme.

Ex-markings:

» **ATEX:**

⊕ II 2G Ex ib IIC T4 Gb
⊕ II 2D Ex ib IIIC T135°C Db IP6X
EU Type Examination Certificate:
EPS 16 ATEX 1 119 X
CE-designation: **CE** 2004 **Ⓢ**

» **IECEx:**

Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X
IECEx Certificate: IECEx EPS 16.0052X

» **Temperature range:**

-20°C ... +60°C

» **Manufactured by:**

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

4 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If there is any reason to suspect that the safety of the device has been compromised, it must be withdrawn from use and removed from any hazardous areas immediately.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 subjected to excessive loads. The device has been stored improperly.
- Markings or labels on the device are illegible.

It is recommended that a device which shows or which is suspected of faults and damages is returned AXEM Technology for inspection.

5 Relevant safety regulations

Use of this device assumes that the operator observes the conventional safety regulations and has read and understood manual, safety instructions and certificate.

The following safety regulations must also be compliant with:

- Inside hazardous areas the cover of the USB interface has to be closed. 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 two halves of the housing.
- The device may only be charged outside hazardous areas using the i.safe PROTECTOR USB-cable or other equipment approved by AXEM technology. USB-connections to other equipment are only allowed outside hazardous areas using the i.safe PROTECTOR USB-cable or other equipment approved by AXEM technology.
- The device may be charged only at temperatures in between 5 °C and 35 °C.
- The device must not be exposed to abrasive acids or bases.
- The device must not be taken into zones 0 or 20.
- Only accessories provided may be used.

6 Further safety advices

- Do not touch the screen of the device with sharp objects. Dust particles and nails may scratch the screen. Please maintain the screen clean. Remove dust on the screen with a soft cloth gently, and do not scratch the screen.
- Charge the device under indoor conditions only.
- Do not put the device in environments with excessive temperatures, as this could lead to heating of the battery, resulting in fire or explosion.
- Do not charge the device near any flammable or explosive substances.

- Do not charge the device in environments with much dust, humidity, or excessively high or low temperatures.
- Do not use the device in areas where regulations or legislations prohibit the use.
- Do not expose the device or charger to strong magnetic fields, such as are emitted from induction ovens or microwaves.
- Do not attempt to open or repair the device. Improper repair or opening can lead to the destruction of the device, fire or explosion. Only authorized personnel are allowed to repair the device.
- Only use accessories approved by AXEM technology.
- Power off the device in hospitals or other places where the use of mobile phones is prohibited. This device may affect proper work of medical equipment, such as pacemakers, so always keep a distance of at least 15 cm between the device and these devices.
- Observe all corresponding laws that are in force in the respective countries regarding the use of devices while operating a vehicle.
- Please power off the device and disconnect the charging cable before cleaning the device.
- Do not use any chemical cleaning agents to clean the device or the charger. Use a damp and anti-static soft cloth for cleaning.
- Do not discard old and abandoned batteries into the trash, send them to designated waste disposal locations or return them to AXEM technology.

WARNING

AXEM technology will not assume any liability for damages caused by disregarding any of these advices or by any inappropriate use of the device.

7 Maintenance / repair

Please note any legal requirements for periodic inspection.

The device itself has no user-serviceable parts. It is recommended to perform inspections according to the safety regulations and advises.

If there is a problem with the device, please contact your vendor or consult the service center. If your device is in need of repair, you can either contact the service center or your vendor.

8 Battery

The battery in this device is not removable by the user. The battery is not fully charged when the device is purchased, but it contains enough energy to power on the device. To obtain best battery performance and battery life, let the battery discharge completely before charging it completely for the first three charging cycles.

10.1 Charging the battery

Connect the i.safe PROTECTOR cable with the USB connector at the back of the device. A further adapter may be necessary here. Connect the other side of the i.safe PROTECTOR with the socket of the power supply.

After charging, remove the i.safe PROTECTOR from the charger.

10.2 Battery use

In actual use the run time of the device varies with the working environment and usage. Please charge low battery; otherwise you may lose any files which are not saved.

WARNING

The device may only be charged at ambient temperatures in a range from 5 °C ... 35 °C. Please do not use charging equipment if the temperature exceeds this range.

9 I-Safe protector

The device contains specially designed safety circuits.

Connecting the device to non-approved equipment like a computer can endanger the safety of the device, as faults in the non-approved equipment could lead to a power surge into the device large enough to destroy the safety circuits.

The i.safe PROTECTOR is a USB-cable for connecting the device with non-approved equipment. It contains additional safety circuits to protect the device from possible faults in the non-approved equipment.

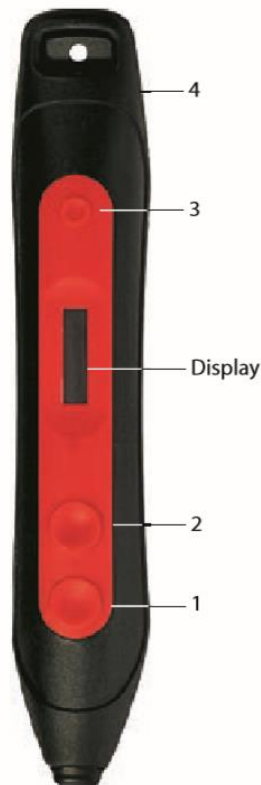
For this reason, charging and USB-connections are only allowed using the i.safe PROTECTOR.

10 Keys and special features

(See illustration on page 2)

- 1 **KEY 1**: to read transponders.
- 2 **KEY 2**: for several Bluetooth function.
- 3 **ON/OFF KEY**: short press to power On/Off the device.
- 4 **USB PORT**: HID (Human Interface Device) and to charge the battery.

Do not open the USB port in hazardous areas!



11 Powering on and off the MULTIPEN

To power ON the device, press the [\[On/Off Key\]](#).

The screen lights up and the device is in running order.

To power Off the device, press the [\[On/Off Key\]](#).

The display indicates a 3 seconds countdown and turn off.

12 Read of transponders

Hold the top of the device near the transponder and make a short press on [Key 1].

If the transponder can be read, the display will indicate the transponder type and the UID. The device will give a short vibrate.

If there is no transponder in reading area, the display will indicate “NO TAG” and vibrate in a longer sequence.

The MultiPEN will indicate automatically supported transponders as follows:

- **LF 125/134 kHz:** EM 41xx, EM 42xx, HTS, FDX-B, HDX
- **HF 13,56 MHz:** ISO 15693, ISO 14443, NFC
- **UHF 860 MHz ... 960 MHz**

13 Bluetooth connection

Turn the MultiPEN ON [On/Off Key]. Press [Key 2] for turn On and Off the Bluetooth function.

14.1 Bluetooth mode

Your MultiPEN device is set to Bluetooth HID (Human Interface Device) Mode To set SPP Mode, keep [Key 2] pushed and turn on the device. The display will show the set mode. To switch back to HID Mode, please keep [Key 1] on pushed and turn on the device.

14.2 Pairing with other devices

For pairing with other devices, push and hold [Key 2]. The Display will indicate “Pairing Bluetooth ...” and after successful pairing the MultiPEN will be listed as RNBT-E5D5 in paired Bluetooth device.

The display of the MultiPEN will indicate “End of pairing”. For existing connection, the display of the MultiPEN indicates a BT icon top right. In case of lost connection, the BT icon will be framed.

14 Read transponders on PC or Android Device

For reading the transponders via Bluetooth you have to install “WINDOWS TIDMULTIPEN V.1.x” on PC..

15 Human interface device (HID)

Powering Off and connect the MultiPEN with the delivered USB cable to the USB port on your PC. The display of the MultiPEN lights up and indicates an USB icon on top right of the display.

Open an Excel sheet and read a transponder. The UID of the transponder will be imported automatically to any position of cursor on PC.

16 Recycling

The crossed-out wheeled-bin symbol on your product, battery, literature, or packaging reminds you that all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. This requirement applies in the European Union. Do not dispose of these products as unsorted municipal waste.

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials.

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