‹ IS-RSM3B.1 ›

OPERATING MANUAL

‹ **i.safe** MOBILE

Template: TEMPMM01REV10

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❯ CONTENTS

This Operating Manual complies with these standards:
IEC 60079, IEC 82079, ANSI Z535.6
Diese Bedienungsanleitung erfüllt die Anforderungen der folgenden Normen:
IEC 60079, IEC 82079, ANSI Z535.6

ENGLISH

⚠️ **PROTECT YOUR LIFE AND READ THE OPERATING MANUAL**

This Operating Manual is part of the device **IS-RSM3B.1 (model MRSM3BA01)**. This Operating Manual provides important information for safe use of the device.

» Before using the device, read this Opertaing Manual carefully and pay particular attention to the „Ex-relevant Safety Regulations" section and the warnings highlighted with the warning symbol. If you do not follow these instructions or do not understand them, this could lead to **death, severe injuries and damage** to the device.

» Make sure you have access to this Operating Manual when you need it. You can find the current Operating Manual at **www.isafe-mobile.com/en/support/downloads**

» 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 and 2/22 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, see section "Connecting approved accessories",
  - 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, see section „Replacing the battery",
  - 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 charge the device,
  - 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 and the **IS-DCRSM3.1** Desktop Charger structurally.

» Do not expose the device and the **IS-DCRSM3.1** Desktop Charger to high temperatures.

» Do not expose the device and the **IS-DCRSM3.1** Desktop Charger to strong UV radiation.

» Do not expose the device and the **IS-DCRSM3.1** Desktop Charger to processes with high electrical charges.

» Do not expose the device and the **IS-DCRSM3.1** Desktop Charger to aggressive acids or

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bases.
» Protect the device and the **IS-DCRSM3.1** Desktop Charger from strong electrical magnetic fields as for example those emitted by induction cookers or microwave ovens, for example.
» Only use accessories approved by **i.safe MOBILE GmbH**.
» Do not open the device and the **IS-DCRSM3.1** Desktop Charger or carry out any repairs yourself.
» Do not use the device and the **IS-DCRSM3.1** Desktop Charger 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 headsets at the maximum volume setting, first set the volume control on the device to 50 % of the maximum volume.
» Do not charge the device in the vicinity of flammable substances.
» Only charge the device using the 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).
» Only charge the device under dry indoor conditions.
» Do not charge the device in environments dusty or humid.

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:

ACCESSORIES

» It is allowed to connect accessories approved by **i.safe MOBILE GmbH** inside explosion hazardous areas to the 8-pin circular ISM interface.
  The following accessories may be connected to the 8-pin circular ISM interface:
  -the Headset **IS-HS4A.1**
  -the Headsets **IS-HDHS3x.1**
» When using accessories with Velcro fasteners (e.g. Headset **IS-HDHS3B.1**), the Velcro fastener may only be adjusted outside explosion hazardous areas.

COVERS

» The 8-pin circular ISM interface does not have to be covered within explosion hazardous areas. When not in use, it is recommended to protect the 8-pin circular ISM interface from dirt.

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 two halves of the housing.

CHARGING

» The device may only be charged outside explosion hazardous areas using the charging equipment approved by **i.safe MOBILE GmbH**.

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

IMPACTS

» 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.

CONDITIONS OF USE

» The permitted ambient temperature range is -10 °C to +55 °C (14 °F to +131 °F).

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

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).

» The battery must only be charged under dry indoor conditions only.

» 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.

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» 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.

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.

❯ INTENDED USE

The **IS-RSM3B.1** is a Remote Speaker Microphone for industrial use in
explosion hazardous areas of Zone 1/21 and 2/22, in accordance with Directives 2014/34/EU, 1999/92/EC and the IECEx system, among others.

The **IS-RSM3B.1** is a Bluetooth® Remote Speaker Microphone for connecting to any Bluetooth device.

Only use the device as described in this Operating Manual. Any other use is considered improper and can lead to death, severe injuries and damage to the device.

The manufacturer **i.safe MOBILE GmbH** does not assume any liability for damage caused by improper use. The warranty expires in the event of improper use.

USER

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

WARRANTY

You can find the warranty conditions at **www.isafe-mobile.com/en/support/service**

For any damage caused by computer viruses that you download while using the Internet functions responsibility is at your hand. There is no right of recourse against **i.safe MOBILE GmbH**.

EU DECLARATION OF CONFORMITY

You will find the EU declaration of conformity at
www.isafe-mobile.com/en/support/downloads

FCC/IC STATEMENT FOR IS-RSM3B.1

The FCC/IC declaration can be found at
www.isafe-mobile.com/en/support/downloads

CE STATEMENTS FOR IS-RSM3B.1

This device is a low-power radio transmitter and receiver. As recommended by international guidelines, the device meets applicable national SAR limits of 2.0 W/kg (10 g). 10 g SAR: meets low-power exclusion level, SAR test is not required.

Operation Frequency	Max. EIRP
Bluetooth: 2402 MHz ~ 2480 MHz	-1.44 dBm

This product can be used across EU member states.

EU REGULATORY CONFORMANCE

Hereby, **i.safe MOBILE GmbH** declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

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EX MARKINGS

› **ATEX:**
   ⓔ II 2G Ex ib IIC T4 Gb
   ⓔ II 2D Ex ib IIIC T135 °C Db
   EU Type Examination Certificate:
   EPS 24 ATEX 1 013 X
   CE-designation: ⟨€ 2004

› **IECEx:**
   Ex ib IIC T4 Gb
   Ex ib IIIC T135 °C Db
   IECEx Certificate: IECEx EPS 24.0004X

› **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

› SCOPE OF DELIVERY

Your device packaging contains the following:

› 1 x **IS-RSM3B.1**
› 1 x Battery
› 1 x Safety Instructions
› 1 x **i.safe PROTECTOR 2.0** USB-C Cable
› 1 x Torx Screwdriver
› 1 x **IS-DCRSM3.1** Desktop Charger
› 1 x Belt Clip

› DEVICE OVERVIEW/FUNCTIONS

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1 › **MICROPHONE**

2 › **LOUDSPEAKER**

3 › **FUNCTION KEY DOWN**
= BT-function key 3 (**IS-RSM3B.1**) in the Button App. Optional function, e.g. channel down - function can be assigned via Button App (system integrated).

4 › **8-PIN CIRCULAR ISM INTERFACE**
Connection for approved accessories.
Also see section "Connecting approved accessories".

5 › **FUNCTION KEY CIRCULAR**
= BT-function key 4 (**IS-RSM3B.1**) in the Button App. Optional function - function can be assigned via Button App (system integrated).

6 › **LOUDNESS CONTROL**
Volume up/Volume down.

7 › **FUNCTION KEY UP**
= BT-function key 2 (**IS-RSM3B.1**) in the Button App. Optional function, e.g. channel up - function can be assigned via Button App (system integrated).

8 › **FUNCTION KEY LEFT**
= BT-function key 1 (**IS-RSM3B.1**) in the Button App. Optional function, e.g. open/close PTT channel - function can be assigned via Button App (system integrated).

9 › **STATUS LED BATTERY**

10 › **FUNCTION KEY RED**
= BT-function key 5 (**IS-RSM3B.1**) in the Button App. Optional function, e.g. Send an SOS signal - function can be assigned via Button App (system integrated).

11 › **POWER KEY**
Switch the device on/off (press and hold for about 3 seconds).

12 › **CHARGING CONTACTS**

13 › **BELT CLIP**

14 › **EYELET**
Eyelet for hand strap.

15 › **BATTERY**

16 › **STATUS LED BLUETOOTH (ONLY IS-RSM3B.1)**

17 › **IS-DCRSM3.1 DESKTOP CHARGER**

18 › **USB INTERFACE IS-DCRSM3.1 DESKTOP CHARGER**
Connection for the i.safe PROTECTOR 2.0 USB-C Cable.

19 › **CHARGING SLOT IS-RSM3B.1**

› CHARGING

> **⚠ DANGER**
>
> An incorrect procedure in explosion hazardous areas poses risk of death or severe injuries! Only charge the device outside of explosion hazardous areas. Do not charge the device in the vicinity of flammable substances.

> **NOTICE**
>
> Incorrect charging can cause damage to the device. Please note the following when charging:
>
> » Only charge the device using the 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).
> » Charge the device under dry indoor conditions only.
> » Do not charge the device in environments dusty or humid.

Your device package does not contain a power supply unit. Use a 5 V/3 A power supply unit and the **i.safe PROTECTOR 2.0** USB-C Cable supplied for charging.

» Connect the **i.safe PROTECTOR 2.0** USB-C Cable to the power supply unit.

» Connect the **i.safe PROTECTOR 2.0** USB-C Cable to the USB interface of the **IS-DCRSM3.1** Desktop Charger.

» Insert the **IS-RSM3B.1** into the **IS-DCRSM3.1** Desktop Charger.

» Connect the power supply unit to the power socket.

The status LED battery on the **IS-RSM3B.1** shows the charging status.

Charging mode:
green on = battery 95 % - 100 %,
red on = battery 0 % - 94 %,

Operation mode:
green flashing = battery 100 % - 41 %,
yellow flashing = battery 40 % - 21 %,
red flashing = battery 20 % - 0,1 %

› SWITCHING ON/OFF

» Press and hold the power key for about 3 seconds.

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❯ CONNECTING THE DEVICE

You can connect the **IS-RSM3B.1** to any Bluetooth devices.

❯ Activate Bluetooth on your Bluetooth device.

❯ In switched-off state press and hold the power key on the **IS-RSM3B.1** for about 5 seconds.

The status LED Bluetooth (blue) starts flashing and the **IS-RSM3B.1** searches for a Bluetooth connection.

❯ Search on the Bluetooth device for **IS-RSM3B.1** and connect.

The status LED Bluetooth lights up constantly.

❯ USING THE DEVICE

> ⚠ **CAUTION**
> When using 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 use the device at ambient temperatures between -20 °C to +55 °C (-4 °F to +131 °F).

Further information on operating the device can be found at **www.isafe-mobile.com/en/support/service** under the menu item **"FAQ"**.

› CONNECTING APPROVED ACCESSORIES

⚠ **DANGER**

Improper use poses risk of death or severe injuries!

» Only connect accessories approved by **i.safe MOBILE GmbH** to the device. Accessories approved by **i.safe MOBILE GmbH** can be found at **www.isafe-mobile.com/en/products**

You can connect accessories approved by **i.safe MOBILE GmbH** inside explosion hazardous areas to the 8-pin circular ISM interface, e.g. **IS-HS4A.1**.

» Connect the plug of the approved accessory to the 8-pin circular ISM interface.

» Hand-tighten the screw.

» When not in use, protect the 8-pin circular ISM interface from dirt.

› REPLACING THE BATTERY

⚠ **DANGER**

An outdated battery can overheat, inflate and cause a fire. This poses a risk of death and serious injury! If you use the device daily, you should replace the battery 2 years after first use, but at the latest after 500 charging cycles or when the operating time has been significantly reduced. If you have any further questions, please contact the **i.safe MOBILE GmbH** repair service at **www.isafe-mobile.com/en/support/service**

⚠ **WARNING**

If you replace the battery with the wrong battery in the device, there is a risk of explosion, which could result in death or serious injuries! Only replace the battery with an approved replacement battery outside of explosion hazardous areas. An approved replacement battery can be found on the website **www.isafe-mobile.com/en/products**

» Loosen the screws on the battery using the Torx Screwdriver provided.

» Remove the battery from the battery compartment as shown.

» Place the approved replacement battery in the battery compartment as shown. Make sure that the gold-coloured contacts of the battery and the device face each other.

» Hand-tighten the screws using the Torx Screwdriver provided.

» Check that the battery is seated correctly and securely.

› POSSIBLE DEVICE PROBLEMS

You can find information on possible device problems and how to rectify them at **www.isafe-mobile.com/en/support/service** under the menu item **"FAQ"**.

If you have any further questions, please contact the **i.safe MOBILE GmbH** repair service at **www.isafe-mobile.com/en/support/service**

› MAINTENANCE/REPAIR

The device itself has no serviceable parts.

> ⚠ **WARNING**
> Incorrect repairs present a risk of explosion or fire, which can result in death or severe injuries! Do not open the device or carry out any repairs yourself.

Contact the **i.safe MOBILE GmbH** repair service at **www.isafe-mobile.com/en/support/service** if the device is not working normally, if the device needs to be repaired or if a replacement part is required.

RETURN SHIPMENT

Contact the **i.safe MOBILE GmbH** repair service at **www.isafe-mobile.com/en/support/service**

› DISTRIBUTION PARTNER

You can find the specialist distribution partner responsible for your country at w**ww.isafe-mobile.com/en/contact**

› CLEANING

NOTICE

Incorrect cleaning can cause damage to the device. Please note the following when cleaning:

» Turn off the device before cleaning.

» Disconnect the device from all connected devices before cleaning.

» Disconnect the the **IS-DCRSM3.1** Desktop Charger from the power socket before cleaning.

» Do not charge the device while cleaning.

» Do not use chemical agents for cleaning.

» Clean the device and the **IS-DCRSM3.1** Desktop Charger with a soft, moistened antistatic cloth.

› STORAGE

NOTICE

Incorrect storage can cause damage to the device. Store the device at a humidity of 10 % to 60 % at the following ambient temperatures:

› Up to one month: -20 °C to +45 °C (-4 °F to +113 °F)

› Up to 3 months: -10 °C to +35 °C (+14 °F to +95 °F)

› Over 3 months: -10 °C to +25 °C (+14 °F to +77 °F)

If you do not use the device for a longer period of time, note the following:

» Switch off the device.

» For longer storage without use, remove the battery from the device.

» Charge the battery to approx. 50 % to 70 % every 3 to 6 months to avoid deep discharge.

» Store the battery in a cool, dry place to keep it functional.

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❯ RECYCLING

NOTICE

Incorrect disposal of electronic products, batteries and packaging material puts the environment at risk. Please note the following when disposing of items:

» DO NOT throw away batteries with household waste.

» Always dispose electronic products, batteries and packaging material at the appropriate collection points. This way, you prevent uncontrolled waste disposal and promote the recycling of material resources.

You can obtain further information from regional waste disposal companies, state authorities or the **i.safe MOBILE GmbH** service centre responsible for your country or region at **www.isafe-mobile.com/en/support/service**

❯ TRADEMARKS

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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**