

automatedcontrol



IS540.M1

OPERATING MANUAL

i.safe MOBILE

IS540.M1 | MODEL M540A01

Document No. 1059MM10REV02

Version: 2023-12-18

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Template: TEMPMM01REV10

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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

› READ AND UNDERSTAND THE INSTRUCTIONS

⚠ PROTECT YOUR LIFE AND READ THE OPERATING MANUAL

This Operating Manual is part of the device **IS540.M1 (model M540A01)**. This Operating Manual provides important information for safe use of the device.

- › Before using the device, read this Operating Manual carefully and pay particular attention to the "Safety" section and the warnings highlighted with the warning symbol. ⚠
- › Also read the **Safety Instructions** before using the device.
You can find these at www.isafe-mobile.com/en/support/downloads
- › 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.

› INTENDED USE

The **IS540.M1** is an Internet-capable communication device for industrial use in explosion hazardous areas of Zone 1, 21, 2, 22, M1 and M2, in accordance with Directives 2014/34/EU, 1999/92/EC and the IECEx system, among others.

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.

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

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

EX MARKINGS

› ATEX:

- Ⓜ I M1 Ex ia I Ma
- Ⓜ II 2G Ex ib IIC T4 Gb
- Ⓜ II 2D Ex ib IIIC T135°C Db
- EU Type Examination Certificate:
 EPS 23 ATEX 1 012 X
- CE-designation: C€ 2004

› IECEx:

- Ex ia I Ma
- Ex ib IIC T4 Gb
- Ex ib IIIC T135°C Db
- IECEx Certificate: IECEx EPS 23.0002X

› ANZEx (Australian/New Zealand):

- Ex ia I Ma
- Ex ib IIC T4 Gb
- Ex ib IIIC T135°C Db
- ANZEx Certificate: 23.2001X

› IA (South Africa):

- Ex ia I Ma
- Ex ib IIC T4 Gb
- Ex ib IIIC T135°C Db
- IA Certificate: SABS MS/23-0835X

› Temperature range:

- 20°C ... +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

› DEVICE OVERVIEW/FUNCTIONS



- 1) **LOUDSPEAKER**
- 2) **FUNCTION KEY RED:** Optional function, e.g. SOS - function can be assigned via Button App (system integrated).
- 3) **FRONT CAMERA**
- 4) **16-PIN ISM INTERFACE:** Connection for approved accessories. Also see section "Connecting approved accessories".
- 5) **SIDE KEY RIGHT:** Optional function, e.g. camera - function can be assigned via Button App (system integrated).
- 6) **MICROPHONE**
- 7) **USB INTERFACE:** Connection for the **i.safe PROTECTOR 2.0** USB-C Cable or for other equipment approved by **i.safe MOBILE GmbH**. Also see sections "Charging" and "Connecting approved accessories".
- 8) **LOUDNESS CONTROL:** Volume up/Volume down.
- 9) **SIDE KEY LEFT:** Optional function - function can be assigned via Button App (system integrated).
- 10) **POWER KEY:** A long press switches the device on/off. A short press switches the stand-by mode on/off.
- 11) **SENSORS:** Proximity sensor, light sensor.
- 12) **EYELET:** Eyelet for hand strap.
- 13) **BACK CAMERA**
- 14) **LED FLASH**
- 15) **NOISE CANCELLING:** Noise cancelling microphone.
- 16) **LOUDSPEAKER:** Loudspeaker for hands-free function.
- 17) **BATTERY**
- 18) **CHARGING CONTACTS**

› SAFETY

Read the “Safety” section of this 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.

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.

USE IN EXPLOSION HAZARDOUS AREAS

⚠ DANGER

Improper use can result in death or severe injuries!

- › 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, 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 the battery is screwed tight.
- › If you use the device in an explosion hazardous area, read and follow the instructions in the “Possible User Errors” section.
- › 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 labels on the device are no longer readable.

USE OUTSIDE OF EXPLOSION HAZARDOUS AREAS

⚠ DANGER

Improper use can result in death or severe injuries!

- › 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.
- › Make sure you prevent the user errors described in the section entitled “Possible User Errors”.
- › Only charge the device as described in the “Charging” section.

CAUTION

When using earphones or headsets at the maximum volume setting, you can damage your hearing.

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



NOTICE

Incorrect use can damage the device.

- » Only use accessories approved by **i.safe MOBILE GmbH**, as described in the section on "Connecting approved accessories".
- » 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 unit from high mechanical hazards, strong UV radiation and highly electrically charging processes.
- » Do not touch the display with sharp objects.

POSSIBLE USER ERRORS

DANGER

Improper use can result in death or severe injuries! Follow the instructions below:

- » 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.

When working in explosion hazardous areas, please note:

- » 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.
- » Do not open the device.
- » Do not damage the device.

» SCOPE OF DELIVERY

Your device packaging contains the following:

- » 1 x **IS540.M1**
- » 1 x Battery
- » 1 x Quick Start Manual
- » 1 x Safety Instructions
- » 1 x Display Protection Foil
- » 1 x **i.safe PROTECTOR 2.0** USB-C Cable
- » 1 x Power Adapter universal (power supply unit and various country-specific adapters)
- » 1 x Torx Screwdriver
- » 1 x Display cleaning cloth

CELL BROADCAST

The device supports cell broadcast. Cell broadcast is a cellular service for sending messages to all recipients within a cell.

» INSTALLING THE BATTERY

⚠ DANGER

Installing the wrong battery in the device, poses a risk of explosion, which could result in death or serious injuries! Only fit the battery supplied or an approved replacement battery in the device outside of explosion hazardous areas. The approved replacement battery can be found on the website www.isafe-mobile.com/en/products



- » Place the battery in the battery compartment as shown.
- » Hand-tighten the screws using the Torx Screwdriver provided.
- » Check that the battery is seated correctly and securely.

› INSERT/REMOVE SIM CARD

The device has a nano-SIM card slot and an additional eSIM. The eSIM is a non-removable, integrated digital SIM. eSIM is not supported by all mobile service provider.

⚠ DANGER

An incorrect procedure in explosion hazardous areas poses a risk of death or severe injuries! Only open the device outside of explosion hazardous areas to insert or remove the SIM card.

NOTICE

Proceeding incorrectly when inserting/removing the SIM card can damage the device and the SIM card. Switch off the device before inserting or removing a SIM card. Do not charge the device while inserting or removing a SIM card.



- ›› Loosen the screws on the battery using the Torx Screwdriver provided.
- ›› Remove the battery from the battery compartment.
- ›› Carefully pull the card holder out of the card slot.
- ›› Insert the SIM card into the nano-SIM card slot (1) with the gold-coloured contacts facing down.
- ›› Carefully slide the card holder into the card slot.
- ›› Reinstall the battery. See section "Installing the battery".

Activate eSIM

You can activate the eSIM in several ways:

1. Via the Android™ Setup Wizard during initial device setup:
 - ›› Scan the eSIM QR code that you have received from your service provider or manually enter the eID that you have received from your service provider.
2. Via the settings menu of the smartphone:
 - ›› > Settings > Network & Internet > Mobile network (add Network) > Download SIM > scan (or manually enter) eSIM QR code that you have received from your service provider.

» INSERT/REMOVE microSD CARD

⚠ DANGER

An incorrect procedure in explosion hazardous areas poses a risk of death or severe injuries! Only open the device outside of explosion hazardous areas to insert or remove the microSD card.

NOTICE

Proceeding incorrectly when inserting/removing the microSD card can damage the device and the microSD card. Switch off the device before inserting or removing a microSD card. Do not charge the device while inserting or removing a microSD card.



- » Loosen the screws on the battery using the Torx Screwdriver provided.
- » Remove the battery from the battery compartment.
- » Carefully pull the card holder out of the card slot.
- » Insert the microSD card into the slot provided (2) with the gold-colored contacts facing down. The device has a slot for a microSD card up to 128 GB.
- » Carefully slide the card holder into the card slot.
- » Reinstall the battery. See section "Installing the battery".

› 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 **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).
- › Charge the device under dry indoor conditions only.
- › Do not charge the device in environments dusty or humid.

Your device package contains a power supply unit, various country-specific adapters and an **i.safe PROTECTOR 2.0** USB-C Cable.

- › Connect the adapter suitable for your country to the power supply unit.
- › 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 device.

› SWITCHING ON/OFF

- › Press and hold the power key for about 3 seconds.
- › Enter the device or SIM PIN when the input dialog for the device or SIM PIN appears after switching on.
- › Press and hold the power key to enter the power off menu. Select <power off> to switch off the device.

› USING THE DEVICE

- › When turning on the device for the first time, follow the instructions on the screen.

Further information on operating the device can be found at

www.isafe-mobile.com/en/support/service under the menu item **"FAQ"**.

Detailed information on operating the Android operating system can be found at:

<https://support.google.com/android>

› CONNECTING APPROVED ACCESSORIES

› 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
Approved accessories can be connected to any 16-pin ISM interface and to the USB interface.

⚠ DANGER

Improper use can result in death or severe injuries! If you need approved accessories in explosion hazardous areas, please note the following before connecting:

- › Connect approved accessories to the 16-pin ISM interface of the device only outside of explosion hazardous areas.
- › Never open the cover of the 16-pin ISM interface in explosion hazardous areas.
- › Operate approved accessories in explosion hazardous areas only on the 16-pin ISM interface of the device. Wired connections via the USB interface are prohibited.
- › Connect the plug of the accessory securely to the 16-pin ISM interface on the device.
- › Only remove approved accessories from the 16-pin ISM interface outside of explosion hazardous areas.
- › Close the 16-pin ISM interface with the cover provided when you are not using accessories.

16-PIN ISM INTERFACE



› Loosen the screw on the 16-pin ISM interface cover using the Screwdriver included in the approved accessory package. Remove the cover as shown.



- › Connect the plug of the approved accessory to the 16-pin ISM interface as shown.
- › Hand-tighten the screws.
- › Check that the plug is seated correctly and securely.

USB INTERFACE

⚠ DANGER

Improper use can result in death or severe injuries! Only use USB interface outside of explosion hazardous areas. Never open the cover of the USB interface in explosion hazardous areas. The USB interface is used for charging and data transfer.

- » Connect approved accessories or other devices to the USB interface only by using the **i.safe PROTECTOR 2.0** USB-C Cable or by using other equipment approved by **i.safe MOBILE GmbH**.

» CHANGING THE BATTERY

⚠ 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.
- » 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 www.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.
- › Do not charge the device while cleaning.
- › Do not use chemical agents for cleaning.
- › Clean the device and the Power Adapter with a soft, moistened antistatic cloth.
- › Clean the display screen regularly with a soft, 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, charge the device to approx. 50 % to 70 % using the **i.safe PROTECTOR 2.0** USB-C Cable supplied or other charging equipment approved by **i.safe MOBILE GmbH**.
- ›› Charge the device every 3 to 6 months to avoid deep discharge.
- ›› Store it in a cool, dry place to keep the battery functional.

› 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:

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- » **<https://support.isafe-mobile.com>**



www.automatedcontrol.com.au