spexor

Original instructions
English

Shown in illustrations with white housing.
However, spexor is also available in other colors.

Contents

About this manual

Other applicable documents

– Quick Start Guide from the scope of delivery
– Short instructions from the scope of delivery

Presentation of information

Hazards and instructions are marked as follows in this user manual:

– Note –

Hazardous situation that may result in damage to property or the environment

▷ Marking of an instruction requiring action

⚠️

Safety

▷ Read all safety warnings and instructions. Failure to observe the safety warnings and instructions can result in short circuits or malfunctions.

▷ Carry out all work exclusively according to the complete operating instructions.

▷ Only operate spexor if it is in a technically flawless condition.

▷ Keep the operating instructions and Quick Start Guide in a safe place. Don't throw either one away!

⚠

Safety

Usage in compliance with the intended use

The mobile alarm device spexor monitors its environment with various sensors and provides information about it or triggers an alarm in case of deviations.

spexor should only be used in closed rooms or vehicles and only in dry environments.

spexor may only be used in a private household environment or in vehicles and under no circumstances in safety-critical or security-critical areas.

spexor is not an alarm system, burglar detection system or fire alarm system, especially not in the sense of DIN and VdS standards. spexor is not a fire, smoke or gas detector certified according to corresponding standards and can in no case replace such devices or support their function.

⚠

Safety

spexor can therefore only contribute to the early detection of hazards (e.g. a fire). spexor is not suitable for the safe prevention of these hazards and any resulting personal injury or property damage. Liability is excluded for all damages based on the claim that spexor has not triggered an alarm.

The sensors installed in spexor, such as for air quality, are not calibrated measuring devices for high-precision measurements.

Safety

Hazards

Make no modifications to spexor! Modifications to spexor can result in hazardous damage to the battery, short circuit and malfunction. Do not modify spexor in any way. Do not open spexor. spexor does not contain any components that you can maintain or replace.

Fire hazard! Only charge the battery of spexor with the charger supplied by the manufacturer. If a charger designed for a particular type of battery is used with other batteries, then there is a risk of fire.

⚠️

Safety

Hazardous vapors or liquids! If the device and battery are damaged, vapors or flammable liquids may escape from the battery. The vapors can irritate the respiratory system. Ventilate the area with fresh air and seek medical help in case of health complaints. Leaking battery fluid may cause skin irritation or burns. Avoid contact with it. In case of accidental contact, rinse the affected body part with water.

⚠

Safety

Exposure to fire and heat! Excessive heat can damage the battery or sensors. There is a risk of explosion or short circuit. Protect spexor from heat and keep it away from heat sources such as radiators or stoves and from open flames. Observe the operating and storage temperature ranges specified in the Technical Data on page 23.

Loud alarm signal! If an alarm is triggered, the audio module of spexor emits an acoustic signal that is loud enough to damage your hearing. Do not hold spexor directly against your ears or those of other people. Never use spexor as a baby monitor!

⚠️

Safety

Penetrating moisture! spexor is not protected against moisture, water or liquids. Penetrating moisture can destroy spexor. Keep spexor away from water or other liquids.

Damaged or entangled charging cable! Damaged or tangled charging cables can result in a short circuit. Do not misuse the charger cable for other purposes, such as carrying or hanging spexor or to pull the plug from the electrical socket. Keep the charger cable away from heat, oil, sharp edges, tools and other machines.

⚠️

Safety

Hazards caused by unauthorized use! The nature of the device's design and components can result in hazardous situations if spexor is used by unauthorized persons. Store unused alarm devices out of the reach of children. Do not allow persons to use spexor who are not familiar with this device or who have not read these operating instructions.

Description

Scope of delivery

– Alarm device spexor (shown in illustrations with white housing)
– Power supply unit
– USB charger cable
– Short operating instructions
– Quick Start Guide with QR code

▷ Check that all items listed in the scope of delivery have been delivered and are free of defects. Do not use damaged parts.

Description

Components

1 Infrared motion sensor
2 LED array bar
3 ON/OFF switch
4 Micro-USB port
5 Metal screen guard to protect sensors
6 Keypad for PIN input with LEDs

Description

The LEDs in the LED array bar indicate the following states:

Blue — **Continuous light-up:** Smartphone and app are connected to spexor via Bluetooth®.

White — **Short continuous light-up:** Switch on at the ON/OFF switch.

Short flashes: spexor is still switched on if it is touched or moved while monitoring is deactivated.

Short flashes every 30 seconds: spexor is active when monitoring is activated.

Three flashes sequentially emitted all around the LED array bar: Power supply unit has been detected and charging begins.

Description

Green ▮ **Six flashes sequentially emitted all around the LED array bar:** spexor boots up after switching on.

Pulse for 60 seconds: Indicates sensor calibration after monitoring is activated as well as the remaining time to leave the monitored room. Only then does spexor recognize an alarm event.

Red ▮ **Flashing:** The alarm is triggered.

Short continuous light-up: Switch off at the ON/OFF switch.

Depending on the viewing angle, the white light may appear somewhat violet.

Description

Function

spexor is a mobile safety and security assistant. Its sensors monitor the environment in closed rooms, e.g. at home, in the garage, in the garden shed, in the mobile home or in vehicles.

For **intrusion detection**, spexor continuously evaluates a combination of the various sensors. If deviations are registered, spexor triggers an alarm.

spexor can measure volatile organic components (VOC) in indoor air. These are a measure of **air quality**. spexor regularly transmits the data to the app. A glance at the app shows what the air quality in the room is like. Via its LEDs, spexor can also let you know when it's time to ventilate the closed room. The LED display is often faster than the display in the app.

Description

spexor measures the **temperature** and warns when a pre-defined temperature is exceeded or undershot.

spexor can regularly determine the composition of the room air and compare it with previous measured values. In this way, it detects changes in the room air, such as those that occur during a fire. If sudden, drastic changes occur that indicate **dangerous gases** and a **fire**, it triggers an alarm.

You can find more information about spexor's functions on the website.

Additional features can only be unlocked with future updates. We will inform you about this, for example, via our newsletter.

Description

spexor uses standard technologies for cellular mobile telephony and wireless data transmission: *Bluetooth*®, WLAN and GSM (2G). It can also ascertain its location via GPS data. Unlike smartphones, spexor has a permanently installed eSIM card for mobile phone use that cannot be replaced. It is roaming-enabled and compatible with all major network operators.

If you are nearby, spexor establishes a direct connection to your smartphone and the app via *Bluetooth*®. This is only used when setting up and editing the device settings, but not for activating or deactivating monitoring or for sending alarm messages via your smartphone. This saves mobile phone time and conserves battery power.

Description

No matter where spexor is installed and how far away from your smartphone, it sends alarm messages via the mobile phone network with the permanently installed mobile phone card first to the automated Bosch data processing system. From there, the message is forwarded to your smartphone. At home this is done via WLAN to conserve the battery power of spexor, at all other locations via mobile phone with 2G, provided that mobile phone reception is available.

The rechargeable battery from spexor lasts for several weeks on a single charge (in power save mode), and even longer if operated using WLAN exclusively. The more functions you use, the faster the battery life decreases. This is because the various values, e.g. measurement of air quality, are continuously being measured and transmitted.

Description

Technical Data

- Batteries: Lithium-ion battery pack with 10 Ah, 3.7 V
- Charging current: 1.6 A at 5 V
- Battery self-discharge: approx. 4% per month
- Charging time: approx. 8 h until fully charged
- Supported smartphone operating systems (status 2021): iOS 12.0 or higher, Android 8.0 or higher
- Frequency band, maximum transmission power:
  Bluetooth® Low Energy (BLE):
  2.4 GHz, +10 dBm TX power
  WLAN: 2.4 GHz, +20 dBm TX power
  GSM: 900 MHz, +33 dBm
  GNNS: GPS L1 band, GLONASS G1 band
- Localization: GPS

Description

– Mobile phone network: GSM, 2G (D2 Vodafone),
  eSIM roaming capable
– Sensor detection: up to 5 m radius for motion detection
– Audible alarm signal: approx. 70 ... 85 dB(A)
– Permissible ambient temperature during operation and
  storage: −10 ... +60 °C
– Permissible ambient temperature when charging the
  battery: 0 ... +40 °C
– Weight: approx. 340 g
– Dimensions: height 11.5 cm (4.5 inches), largest diameter
  7 cm (2.75 inches)
– Type of protection: IP 20

Commissioning

Installing app and setting up spexor

▷ Download the free "Bosch spexor" app from the Google Play Store or the Apple App Store.

$+$

Commissioning

To install the app, all you need is a smartphone, mobile phone reception or WLAN. spexor has a built-in eSIM card for mobile phone use. SIM card and mobile provider do not need to be changed.

▷ Follow the instructions of your operating system and the app.

▷ The Bosch ID is a central authentication system of Robert Bosch GmbH that is used for many Bosch products or on Bosch Internet pages. It is best to use the Bosch ID user name and password for login. You can also create a new user account via the app.

▷ Scan the QR Code from the Quick Start Guide.
You can also manually enter the 15-digit device number of your QR code.

$+$

Commissioning

Without the QR code spexor cannot be reinstalled.
Always keep the QR code together with the Quick Start Guide for safekeeping. Don't throw it away; you will need the QR code if you want to set up spexor again or transfer it to a new owner later.

▷ You can also make a copy of the QR code in the app so that you can e-mail it to yourself and preserve it for safekeeping.

▷ Activate *Bluetooth*® and set up WLAN access.
Blue light-up of the LEDs and two short beeps indicate that your smartphone and app are connected to your spexor via *Bluetooth*®.

▷ For the first time set-up, you need to input a 4-digit device code (PIN). The PIN enables you to deactivate the alarm from spexor – even without a smartphone.

$+$

Commissioning

▷ Authorize the app to send push messages.

It is also possible to use several smartphones to control one spexor. This currently works using the same user account:

▷ Load the app on any other smartphone and use the same access data during installation.

Switching on spexor

In its as-delivered condition, spexor is switched off and its battery may be severely discharged.

▷ Switch on spexor at its ON/OFF switch.
  The battery needs a minimum charge in order to do this.
  If the battery charge is too low, spexor is automatically switched on when the charging process begins.

$+$

Commissioning

An acoustic signal confirms that the device has been switched on. After switching on, the LEDs light up white briefly. While spexor boots up, they light up green six times.

Charging the battery

During the charging process the ambient temperature should be between 0 °C and +40 °C.

▷ Only use the supplied charger to charge the battery of spexor. You can also connect a CE-certified powerbank to keep spexor running self-sufficiently over longer time periods.

▷ Use the USB cable to connect the Micro-USB port of spexor to the power supply unit.

▷ Connect the power supply unit to the mains power.

$+$

Commissioning

The LEDs flash white three times sequentially around the LED array bar thereby indicating the power supply unit has been detected and the charging process has begun.

▷ Fully charge spexor before using it for the first time. This can take up to **8 hours** depending on the ambient conditions.

Launching the app

▷ Start the app.

▷ Log in with your e-mail address and password. You will find information about the login with the Bosch ID on page 25.
If you have forgotten your password, you can reset it in the app.

▷ You can now use the app to operate and configure spexor.

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Commissioning

Adding alarm devices

You can also control multiple alarm devices with your smartphone. There is no limit to how many. You can add more alarm devices in the app. To do this, the spexor to be added must be turned on and the app must be running.

▷ Scan the QR code contained in the Quick Start Guide delivered with the spexor to be added. If you do not want to authorize access to your camera, you can also manually enter the 15-digit device number of your QR code.

▷ Safely store the Quick Start Guide with QR code so it can be used later.

Operation

The app is the communication interface for your spexor. You can use it to monitor different states of your spexor, such as the battery charge level as well as monitoring sensor measurements, e.g. of air quality.

You can also manage your user account information, activate or deactivate monitoring or the alarm function, add more alarm devices, detect the location of your spexor via GPS, view the history of alarm events, use help topics or book additional features or services later.

Monitoring

Placing it where you want to monitor

– Note –

Risk of damage! spexor is not protected against moisture and water. Water or moisture can damage or destroy spexor. Keep spexor away from water or other liquids.

– Note –

Exposure to fire and heat! Excessive heat can damage the battery or sensors. Protect spexor from heat and keep it away from heat sources such as radiators or stoves and from open flames.

Monitoring

Battery performance depends on various factors, e.g. the ambient temperature or the number of functions used, especially continuous measurements.

▷ Note the operating temperature range; see "Technical Data" on page 23.

▷ Only place spexor in closed rooms, e.g. inside a house or apartment, in a car, mobile home, garage, garden shed, etc. Close the windows.

▷ Only place spexor in dry places. Do not place spexor outdoors, e.g. not in a convertible with an open top.

Monitoring

▷ Place spexor centrally in the room or vehicle to be monitored or at critical points where intruders are expected, e.g. in the entrance area or staircase.

▷ If possible, also place it on a raised "vantage point", for example, on a table, the dashboard or the center armrest console. Make sure that no obstacles, such as walls, furniture, plants, books, etc., impair the range. In this manner, the sensors will be able to detect the surroundings within a radius of at least 5 m around the device without restriction. Do not place spexor under a table or on the floor.

Monitoring

▷ When selecting a place for your spexor, make sure the sensors are not covered. Therefore, keep both the LED array bar and the metal screen guard free of obstructions. Avoid closed or partially closed installation locations such as on a shelf between books, behind cabinet doors, in a cup holder or in the glove compartment.

▷ To prevent false alarms, never place spexor next to an open fire, a fireplace, a barbecue, or near sources of exhaust gas from combustion engines.

▷ You can find further installation instructions on www.spexor-bosch.com.

Metallic surfaces above spexor can shield the GPS signals and prevent the location determination.

Monitoring

▷ Ideally, place spexor on the dashboard under the windshield in vehicles.

Pets such as dogs, cats or birds in the same room can trigger an alarm, but animals in an aquarium or terrarium cannot. People or animals on the other side of glass panes are not detected by the intrusion sensors.

▷ Position spexor in such a way that pets cannot be detected.

Monitoring

Activating monitoring

▷ The quickest way to activate intrusion detection is to enter your device PIN on the device using the buttons on the bottom of the device.
Important: spexor must also have WLAN or mobile phone reception when activated on the device in order to send messages.

Two short signal tones confirm the correct entry of the device PIN. If you enter the wrong device PIN, two short, falling signal tones will sound.

▷ Of course you can also activate intrusion detection and any other monitoring functions via the app.

Important: Inasfar as activating monitoring via the app: To ensure that spexor remains mobile for a long time and

Monitoring

that its battery lasts as long as possible, it has different settings for mains power operation as opposed to battery operation:

– In mains operation (charging cable connected to the mains power) spexor receives a message every 2 to 3 minutes whether you have activated or deactivated monitoring. So it can take **2 to 3 minutes** until spexor reacts to your input in the app. This is normal and correct.

– During battery operation, spexor is notified every 15 minutes whether you have activated or deactivated monitoring. So it can take up to **15 minutes** until spexor reacts to your input in the app. This is normal and correct.

The background reason for this is that every communication from the backend requires battery life. Therefore, these

Monitoring

times were empirically tested during practical tests and times were selected that are neither too long nor too short.

▷ If you do not want to wait for this time, you can activate intrusion detection by entering the device PIN; see page 37.

You will receive a push message when the monitoring has been successfully activated.

▷ You now have about one minute to leave the room to be monitored.

A rising tone sequence confirms that monitoring has been activated. After activating monitoring, the LEDs pulsate green for 60 seconds. This indicates calibration of the sensors and signals the remaining time to leave the room to be monitored.

Monitoring

After this, spexor monitors the environment and can trigger an alarm.

You can only activate air quality monitoring, the temperature alarm and hazardous gas detection via the app.

It takes about an hour for hazardous gas detection to become active at a new location. The sensor must first adjust to the ambient conditions at the new location. The app shows the time remaining until hazardous gas detection is active.

Important: When monitoring is active, spexor cannot be switched off at the ON/OFF switch.

Monitoring

Air quality and hazardous gases

The more functions you use, the faster the battery life decreases. This is because spexor continuously measures and transmits at intervals of a few minutes.

▷ You can connect spexor to the mains power using the charging cable – this is especially recommended if you are using it continuously in a stationary location. Alternatively, you can also connect spexor to the powerbank.

Monitoring

Since spexor checks for sudden changes in room air, but does not identify causes, an alarm is not necessarily due to fire gases and a fire. The change can also be caused by other influences, e.g. leakage of a highly volatile liquid or use of chemicals, etc.

▷ Please note that false alarms are also possible!

Monitoring

Settings

At this point, you can also select various settings in the app. For example, you can specify whether spexor should emit an acoustic alarm, optical flashing alarm or discreetly send the alarm message to you in case of an alarm. In any case you will receive a message on your smartphone.

The last 10 alarm messages are stored in the alarm history in the app. The oldest entry is then overwritten.

You can also choose the place of use (environment type) as well as book additional functions or services.

Monitoring

Power save mode

You can use the power save mode to decide for yourself if a longer battery life or a faster communication between app and spexor is more important to you, e.g. when activating monitoring:

In the standard setting with activated power save mode, the battery should last as long as possible. Activating monitoring can then take up to 15 minutes because spexor saves power by only communicating with the backend server every 15 minutes.

Monitoring

▷ If you flip the switch in the app, the power save mode is deactivated.

spexor then works just as quickly as if it were connected to the mains power with the charging cable – activating monitoring or installing updates is much faster. However, the deactivated power save mode means that the battery capacity decreases faster and spexor has to be charged more often.

Important: Alarm messages are always transmitted as quickly as possible, regardless of the power save mode setting.

Monitoring

Deactivate monitoring

▷ To deactivate the monitoring in the app.
A falling tone sequence confirms that monitoring has been deactivated. You will receive a push message when the monitoring has been successfully deactivated.

Important: To ensure that spexor remains mobile for a long time and that its battery lasts as long as possible, it likewise has different settings for mains power operation as opposed to battery operation when deactivating monitoring via the app. See page 37. It may therefore take a few minutes before spexor deactivates itself.

▷ If you want to check if spexor is still switched on when monitoring is deactivated, just touch it or move it a little.
The LEDs flash white briefly if it is still switched on.

Alarm functions

Active alarm

If spexor registers deviations in the usage environment during monitoring, it triggers an alarm. Depending on mobile phone reception, the triggering of the alarm may be delayed or not be triggered at all. The message is sent to your smartphone only after the alarm message from spexor has been received by the automated Bosch data processing back-end.

Depending on the previous selection, the LEDs flash red for 10 minutes and spexor emits an alarm tone.

When an alarm is active, spexor cannot be switched off at the ON/OFF switch.

Alarm functions

After receiving the alarm notification, you decide how to proceed:

▷ If you are nearby, you can check out the situation yourself and deactivate the alarm in the app.
In the event of a hazardous gas alarm, please be very careful when checking the situation on site. Some gases can be deadly!

▷ Or you can call for help. You can trigger the call to the emergency call center directly in the app. It connects you to the emergency call center in the country where you are. If you are abroad and your spexor is monitoring your home, ask neighbors or friends to call the emergency services in case of an alarm.

If spexor frequently triggers false alarms, please contact customer service, see page 58.

Alarm functions

Deactivating alarm

▷ To deactivate the alarm in the app.
The red LEDs go out and the acoustic alarm is silenced.

▷ Alternatively, you can deactivate the alarm on the device by entering your device PIN using the buttons on the bottom of the device.
Two short signal tones confirm the correct entry of the device PIN. If you enter the wrong device PIN, two short, falling signal tones will sound.

spexor will also deactivate both monitoring as well as the alarm if you have deactivated the alarm yourself or notified the emergency call center. If you want spexor to continue to monitor for you, then you must reactivate the monitoring.

▷ You can change the device PIN in the app via Bluetooth® if you are near spexor.

Charging the battery

You can use the app to remotely check the charge level of the battery.

▷ To start the charging process, see "Charging the battery" on page 28.
A full charge can take up to **8 hours** depending on the ambient conditions.

When connected to mains power, spexor can also continuously monitor and perform alarm functions during the charging process.

Updating

Book additional functions

▷ In the future, you can extend the application areas of your spexor with additional functions or services (possibly subject to charge) in the app. The dates, types and costs of such additional functions have not yet been determined. You can find the latest information on our website or in the newsletter.

Restarting

▷ To deactivate the monitoring; see "Deactivating monitoring" on page 46.
▷ Press and hold the ON/OFF switch for 3 seconds until the LEDs light up red and three short, falling signal tones confirm the deactivation.
In some cases, restarting may cause settings to be lost.

Updating

▷ Switch spexor on again at the ON/OFF switch.
An acoustic signal confirms that the device has been switched on.

Device update

The status and version of the device software can be found in the app. **Important:** For an update spexor needs WLAN.

▷ To deactivate the monitoring; see "Deactivating monitoring" on page 46.

▷ Use the USB cable to connect spexor's Micro-USB port to the power supply unit. Then plug the power supply unit into the mains power.

▷ Follow the instructions in the app.

Updating

▷ While the update is running, you can continue to use your phone as normal.

▷ In the app you can also track ongoing updates, this can take a few minutes.

If the WLAN does not work or is generally not available, you can carry out the update via Bluetooth®:

▷ Switch off spexor at the ON/OFF switch and leave it switched off for at least 1 hour, because spexor will only be recognized as "update worthy" after 60 minutes.

▷ Only then open the app and start the update while spexor is still switched off. A pop-up appears.

▷ Before you select "Start with *Bluetooth*®" in the pop-up, switch spexor on again at the ON/OFF switch and activate *Bluetooth*® on your smartphone.

Updating

Updating the app

If an app update is available, you will automatically receive a message on your smartphone.

▷ Just follow the instructions of the operating system on your phone to update the app.

If the app freezes and you can no longer enter data, please contact customer service; see page 58.

Switching off and storage

▷ If you do not need spexor, switch it off at the ON/OFF switch.

Three short, falling signal tones confirm that the device is switching off. After switching off, the LEDs light up red briefly.

▷ Note the storage temperature range; see "Technical Data" on page 23.

Maintenance and service

Maintenance

spexor operates maintenance-free.

– Note –

Modifications to spexor can result in hazardous damage to the battery, short circuit and malfunction. Do not modify spexor in any way. Do not open spexor. spexor does not contain any components that you can maintain or replace.

▷ If your device does not function as described or if your spexor is damaged, please contact customer service; see page 58.

Maintenance and service

Cleaning

– Note –

Risk of damage! Penetrating water or chemicals can damage or destroy spexor. Do not use either water or chemicals to clean spexor.

▷ It is best to use a soft, clean, dry and lint-free cloth to clean your spexor, cable and power supply unit.

Maintenance and service

Customer Service

▷ If you have any questions regarding shipping, disposal or possible defects, please **first** contact the dealer from whom you purchased spexor.

You can find answers to frequently asked questions on www.spexor-bosch.com under "FAQ" or in the app.

The spexor customer service will be happy to help you with any questions regarding spexor and the app.

▷ E-mail: support-spexor@bosch.com

Maintenance and service

Transfer or disposal of device

▷ Before disposing of your spexor or handing it over to a new owner, delete all individual data by selecting the "Delete device" menu item under "Devices" and "Settings" in the app.

▷ **Just uninstalling the app will not delete your data.**

Transfer (e.g. by sale):

▷ Pass spexor on to a new owner along with the complete scope of delivery, see page 13. Don't forget the Original instructions user manual and the Quick Start Guide with QR code.

▷ If necessary, generate the QR code in the app and pass it on, e.g. as a screenshot.

Maintenance and service

Disposal:

▷ Do not throw spexor in the household waste!

▷ Permanently installed batteries may only be removed for disposal by qualified personnel. Do not open the housing!

▷ Return spexor to the appropriate return or collection system for proper disposal. If this is not possible, contact the dealer from whom you purchased your spexor or the customer service department; see page 58.

Maintenance and service

According to the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), electrical and electronic equipment which is no longer fit for use and, in accordance with Directive 2006/66/EC, defective or used batteries must be collected separately and sent for environmentally sound recycling.

Maintenance and service

EU Conformity

grow platform GmbH hereby declares that the radio communication device type spexor complies with the Directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available for download at www.spexor-bosch.com.

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