

NG4000 /GSM SAFE

Protection against spy phones

User Manual

Introduction

Modern communications give varied possibilities of information exchange. At the same time these devices can become a dangerous tool for picking up information illegally. A reprogramming of your mobile phone, installing spyware in it, the substitution of it, or being given a modified telephone will all give other people access to the data in your handset, or the ability to listen to all conversations around you from anywhere in the world. Such illegal actions can be accomplished without any signs on the display being shown or sound signals being heard.

The GSM-SAFE 3 has been designed to detect the illegal activation of a mobile phone. In addition to this main function, the GSM-SAFE 3 also creates interference to the surrounding area of the telephone's microphone by generating 'white noise' when radio-waves are detected; this noise suppresses the microphone in the telephone rendering it useless.

GSM-SAFE 3 is an updated version of its predecessors, and has the following distinctive features:

- 2 working modes:
 - 1) DETECT – warns you with the help of the LED when the telephone starts an exchange of information;
 - 2) NOISE – in addition to warning the GSM SAFE 3 will produce audio interference which suppresses the telephone's microphone
- Accurate and sensitive detection of GSM 900/1800, CDMA850, WCDMA2100 (3G, UMTS) and Bluetooth/Wi-Fi by an intelligent algorithm of the microcontroller
- This latest version turns on automatically when a telephone is put inside and automatically turns off when the handset is taken out.
- Indication of detected communication protocol by the color of the LED
- Produced as an attractive wooden desktop stand
- A new more sensitive scheme of detection with pre-selectors provides a better detection distance
- Long battery life of up to 10-15 days when used moderately
- Does not block the mobile network in the area
- Has no adverse effect on health (no electromagnetic waves)
- Compatible with virtually all types of GSM telephones (max width 7 cm, practically any height and thickness)
- Built-in diode for indication of the active mode and kind of the detected protocol

The GSM SAFE 3 has been created as an attractive desktop stand to protect your conversations in case your mobile phone has been modified, changed or has pre-installed spyware software. Its features include a built-in radio-frequency detector, a controlling scheme and a noise generator which can turn on when the phone is active. The GSM SAFE 3 automatically turns on when there is a telephone inside it. Normal calls can be answered in the usual way since you will hear the telephone's melody or vibration and simply remove it from the stand. Hidden 'spy' activations do not produce any sound or vibration and this is where the GSM SAFE 3 will warn and protect you. In the event of a 'spy' activation the GSM SAFE 3 will alert you with the help of its LED and can automatically turn on its noise generator (NOISE mode) so the listener will hear this sound only.

Specification

Design	Attractive desktop stand. 3 colors available. Made of natural wood with an internal velour cover
Power	2 x AAA
Working time (mixed mode)	5-15 days
Current consumption (stand-by/active)	2 mA / 25mA

Use

Use a screw-driver to open the screws of the battery compartment on the bottom of the GSM SAFE 3. Use 2 new alkaline AAA batteries to achieve the best working time. After installing the batteries the device is ready for use. Replace the cover.

Select the working mode using the button on the bottom of the GSM SAFE 3:

- 1) DETECT. In this mode the GSM SAFE 3 warns you with the help of the LED when the telephone starts an exchange of information. The button is not depressed.
- 2) NOISE – in addition to warning the GSM SAFE 3 will produce audio interference which will suppress the telephone's microphone. The button should be pressed in.

Put your telephone inside the GSM SAFE 3. The device will automatically turn on after the telephone is placed inside. The normal working status will be confirmed by the diode flashing green every two seconds.

To ensure that the GSM SAFE 3 is working properly, make a call from your telephone and put it inside the GSM SAFE 3. The diode should turn on and stay in this state longer than just blinking green. Depending on the type of signal detected the diode will light up in a different color:

Type of protocol	LED color
CDMA850	Green
GSM	Red
3G (UMTS)	Orange
Wi/Fi	Orange / Blue
Bluetooth	Blue

In the NOISE mode the built-in generator will produce noise simultaneously with the illumination of the LED.

When the battery is low the LED will stay red without blinking.

Please note:

- The color of the LED is selected by the microcontroller as a result of the analysis of the demodulated signal. In our modern, high-tech environment, there may be some simultaneous signals detected by the GSM SAFE 3. As a result the color may vary.
- External powerful signals, like ones sent out from Wi-Fi hotspots, may give alarms on the GSM SAFE 3 as its sensitivity is tuned to catch the weakest signals going from the telephone
- Since the telephone 'knows' its distance to the base station and adjusts its transmitter's power to the lowest possible in order to save the battery, the sensitivity of the GSM SAFE 3 is tuned to 'feel' the weakest signals. When the base station is further, the telephone increases its power from the telephone. This may result in false detections caused by other phones situated around the GSM SAFE 3 when the distance to base station is high.