

BIK-04E

Polyzonal Indicator
of UHF, Electromagnetic
Fields and Infrasonics

OPERATION MANUAL

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Overlook

Polyzonal indicator of infrasonic signals, electromagnetic fields (EMF) and microwave radiation BIK 04E (hereinafter - the product) is used to detect and identify radiation above accepted standards, assessing their level and searching for point sources of radiation with relatively small capacity. The product is equipped with a built-in economy LED flashlight. It is small in size and weight, providing long-term operation from just one battery.

Main Characteristics:

- **Operating frequencies:**

 - Infrasound: 5-20Hz*

 - EMF: 50-100kHz*

 - UHF: 0.3-10GHz*

- **Detection threshold:**

 - Infrasound: ~70dB*

 - EMF: ~2mT*

 - UHF: ~250mW/sml*

- **Dynamic range of input signals:**

 - more than 40 dB*

- *Structure of indication signals:* pulses of 250ms and the cycle of 0,5s
- *Frequency of indication sound signal:* 4kHz
- *Number of LED indicators:* 4
- *Illuminating power of LED flashlight:* from 0.2 to 2.0 cd
- *Power voltage:* 2.5-3.3V
- **Current consumption / operating time:**
 - No signal:* 40 μ A/5000h
 - Light indication:* 500 μ A/400h
 - Sound indication:* 720 μ A/280h
- *LED flashlight:* 800 μ A-8mA/250 2h
- *Dimensions:* 48 x 32 x 12 mm
- *Weight (with battery):* 16g

Operating the Device

Power Voltage Testing and Battery Replacement

At each powering the device check power supply status (CR2032 lithium battery) which is displayed on the indicator within 2 seconds by the corresponding number of discharge indicator levels. With a battery fully charged there is one green and three yellow LEDs on, and while discharging they

become less. Deep discharge is indicated by a red LED stating low battery capacity. Further operation is possible within no more than 100 hours.

To replace battery, remove the two screws as well as the cover of the product. Push the battery out of the retaining clamp and install the new one with the correct polarity (plus at the top). Turn the power on and make sure the battery is not discharged, as shown on the indicator. Turn off the power, put the cover back on and tighten the two screws. The product is ready for further use.

Note: The operational state of the product is confirmed by periodic short flashes of the right red LED once every 2.5s.

Detecting Radiation

The product provides two kinds of display when detecting and identifying radiation:

- silent single pulses of the right red LED corresponding to UHF; single pulses of green LED corresponding to EMF and double pulses of green LED corresponding to infrasound;
- sound - additional intermittent signal with the frequency of 4 kHz. The sound when receiving

can be temporarily disabled by briefly pressing the button until receiving has been completed. To switch modes, you must briefly press, release, press again and hold the button. While this every 2 seconds the modes will switch periodically: silent (switches between green and red LEDs) and sound (signal 4 kHz). Release the button on the desired mode that will be saved up to the new installation. When powering the device sets the mode previously selected.

Determining Power and Location of Source

When receiving three yellow and the left red LED lights show signal level in decibels relative to the accepted standards (dBs). For instance the level of 40dBs (all LEDs on) shows excess rate of 10,000 times in terms of power.

The product allows you to determine the location of radiation according to the growing number of yellow and left red LEDs enabled as approaching it.

Use of LED flashlight

To activate flashlight, press and hold the button until LED is on the end of the case. Further holding the button leads to triple increase in brightness up to the maximum for 4s. Release the button at the desired brightness. To turn off the flashlight push the button shortly.

In Box:

- The product: 1 pc
- Operation Instructions: 1 pc

Warranty

The warranty period for the product is 1 year from the date of sale. Claims under the warranty will not be accepted in case of:

- No signature and seal on the document;
- Incompleteness of the product;
- Damage to the case, printed circuit board and elements on it.
- High-power SHF exposure

Issues related to the return and exchange are resolved in accordance with the Law «On Protection of Consumers' Rights».

BIK-04E

Broadband Radio Signal Indicator

Number: _____

QC: _____

Selling date: _____

Seller: _____

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