

TERRA-P+
HOUSEHOLD DOSIMETER

QUICK START



MKS-05 dosimeter-radiometer

Use the MODE and THRESHOLD buttons to operate the dosimeter.

Switching on/off the dosimeter

Press the MODE button and hold it pressed for one second.

The dosimeter will automatically enter the mode of gamma dose rate measurement, followed by the blinking light-emitting diode (LED) under the "GAMMA DOSE RATE" inscription.

To switch off the dosimeter, press the MODE button and hold it pressed for 6 seconds.



Measuring gamma dose rate

Place the dosimeter above the surface you want to examine with the „+“ symbol on its back side. The frequency of audio signals indicates the radiation level (each audio signal refers to registered gamma quantum).

In 10 seconds the LCD will start showing rough measurement results.

Consider the value after the digits on the LCD stop blinking as the accurate measurement result.

If a radiation level changes significantly, the digits on the display will start blinking again. This means that the dosimeter determines a new mean value. As soon as the digits stop blinking, more accurate results will appear.

! Permissible radiation background is shown on the dosimeter's back side.

Note. The process of data averaging can be stopped forcibly to provide effective evaluation of the gamma radiation level. To do this, change the object of examination and press shortly the THRESHOLD button.

Rough evaluation of gamma background level of every new object can be performed within 10 seconds.



Accumulated gamma dose

To get the total dose of gamma radiation, accumulated from the moment the dosimeter is on, press the MODE button and look for a blinking LED under the "GAMMA DOSE" inscription.

Remember that in order to receive accurate results, keep your dosimeter with you always switched on. To reset the dosimeter readings, switch it off.



Measuring beta radiation

Before beginning the beta radiation measurement, proceed to measure gamma background (for further automatic subtraction) in the mode of gamma dose rate measurement above the surface of interest. To do this, wait until the digits on the LCD stop blinking and press shortly the MODE button twice.

The dosimeter will switch to the mode of beta radiation measurement (a blinking LED under the "BETA DENSITY" inscription). Remove the cover with the "+" symbol. Place the dosimeter with its back side above the surface under examination.

Consider the value after the LCD stops blinking as the measurement result of beta contamination.



Gamma dose accumulation time

To get the total accumulation time of gamma radiation, press the MODE button. This mode is next after the mode of beta radiation measurement.



Clock

Once the dosimeter is on press the MODE button four times (or press once after the mode of gamma dose accumulation time).



Correction of clock settings:

- 1 Press the THRESHOLD button and hold it pressed until the value of minutes start blinking.
- 2 To set the value of minutes, first release and then again press the THRESHOLD button and hold it pressed until the proper value appears.
- 3 Press the MODE button to set the value of hours. Repeat step 2.
- 4 Press the MODE button. The time will be fixed.
- 5 Press the MODE button and the dosimeter will enter the mode of gamma radiation dose rate measurement.

Switching on/off audio signaling of registered gamma quanta and beta particles

Simultaneously press and release the MODE and THRESHOLD buttons to switch off audio signaling, which is indicated by the «- - -» symbol that briefly appears on the display.



Simultaneously press and release the MODE and THRESHOLD buttons once again to switch on audio signaling, which is indicated by the "Aud" symbol that briefly appears on the LCD.



Switching on/off display backlight

Press any button of the dosimeter and switch to the other operating mode to turn on the display backlight for 5 seconds.

Press shortly the THRESHOLD button to switch the dosimeter's display backlight on without changing the operating mode.

The display backlight will switch off automatically in 5 seconds.

Maintenance recommendations

Do not let the dosimeter become absolutely dirty. Use a soft, dry cloth to clean its body.

If operating in a dusty environment or during atmospheric precipitations, the dosimeter should be placed into a plastic bag or a special case.

Remove the batteries if the dosimeter is not in use for a long time.

Warranty is void in case of:

- any mechanical or thermal damage,
- the body opened and any internal changes are made,
- the warranty stamps are violated,
- any liquid remains.

For more information about the TERRA-P+ dosimeter, read the operating manual of this device.

Manufacturer PE „SPPE „Sparing-Vist Center“
33 Volodymyr Velyky Str., Lviv, 79026, Ukraine
tel.: +380 32 242 15 15; fax: +380 32 242 20 15
e-mail: sales@ecotest.ua