

STORA-TU (Gamma, beta radiation radiometer-dosimeter RKS-01)



The modified device «STORA-TU» is smaller and has a modern damp and dustproof body (IP-54). Measurement units, measurement errors, alarm threshold level and real time are simultaneously displayed on a large liquid crystal display (LCD) with a luminescent backlight. Besides, the LCD displays a battery status symbol and a twelve-segment indicator of registered radiation intensity.

The new version of the device has a Bluetooth channel for connection with the PC. The nonvolatile memory allows storing measurement results that are later transferred to the PC on measurement completion. It also operates in the mode of intelligent detector, in which measurement results are transferred either to the PC or the pocket PC in real time.

Purpose of use

- Measurement of gamma and X-ray radiation ambient dose equivalent rate.
- Measurement of surface beta-particles flux density.
- Real time measurement (clock), alarm clock.

New features

- Damp and dustproof body (IP-54).
- New big display with luminescent backlight.
- Simultaneous indication of measurement units, measurement errors, threshold level and real time.
- Analog twelve segment indicator of registered radiation intensity.
- Possibility to perform measurements with a preset error.
- Four-level indication of battery discharge.
- Built-in memory which allows storing up to 1200 measurements and 999 numbers of the measured objects with possibility to view the recoded information on the personal digital display.
- Mode of PC connection via Bluetooth.
- Real time and date display, and also alarm clock function.

Features

- Three independent measuring channels with alternate indication of data on the single liquid crystal display.
- Prompt evaluation of gamma background within 5 seconds.
- Automatic subtraction of gamma background at measurement of beta contamination.
- Four built-in gamma, beta sensitive Geiger-Muller counters.
- Automatic setting of measurement intervals and ranges.
- Audio signaling of each detected gamma-quantum and beta-particle that can be switched off.
- Two-tone audio alarm of exceeded programmed threshold levels.
- Digital display backlight.
- Operation with telescopic tube.
- Two AAA size batteries.

Specifications

Measurement ranges and basic relative errors:

- Gamma and X-ray radiation ambient dose equivalent rate (^{137}Cs)	$\mu\text{Sv/h}$	0,1...999,9; $\pm 15\%$
- Beta-particles flux density ($^{90}\text{Sr} + ^{90}\text{Y}$)	$1/(\text{cm}^2 \cdot \text{min})$	5...100 000; $\pm 20\%$

Energy ranges of measurement and energy dependence:

- Gamma and X-ray radiation	MeV	0,05...3,0; $\pm 25\%$
- Beta radiation	MeV	0,5...3,0;
Resolution of threshold level programming for:		
- dose rate	$\mu\text{Sv/h}$	0,01
- flux density	$10^3/(\text{cm}^2 \cdot \text{min})$	0,01
Battery life	hours	1 500
Operating temperature range	$^{\circ}\text{C}$	-20...+50
Weight	kg	0,44
Dimensions	mm	160×75×35

- Low battery indication.

Delivery kit

- RKS-01 "STORA-TU" radiometer-dosimeter.
- Telescopic tube.
- Operating manual.
- Case for the device and telescopic tube.
- Software.
- Cardboard box.