

Search Alarm Dosimeter

DKS-02 PN PRD CADMIUM

A high-sensitivity device intended to detect and localize radioactive sources of gamma and neutron radiation. It is used by the border guard service and other law enforcement agencies to prevent illicit transfer of radioactive materials.



DESCRIPTION

The device comprises high sensitivity CsI scintillation detectors of gamma and Lil of neutron radiation with solid state (silicon) photomultiplier.

CADMIUM has the ingress protection rating IP67 and modern ergonomic design. It is equipped with a large color display with high resolution. The device has no “microphone effect” and ensures high thermal stability.

When threshold levels are exceeded, audible and vibrating alarms are generated, as well as light color indication of threshold levels exceeding (gamma radiation – red color, neutron – blue) with its duplication on the device' front panel and end face.

The integrated GPS/GLONASS receiver and the new software make it possible to display the received radiation monitoring information on the electronic map.

The dosimeter can be connected to the PC via the USB port. It is powered from the built-in lithium polymer storage batteries that can be charged via the USB cable. Time of continuous operation is more than 200 hours.

PURPOSE OF USE

- Searches (detects and localizes) for radioactive and nuclear materials by their external gamma and neutron radiation.
- Measures dose rate $H^*(10)$ of gamma, X-ray and neutron radiation.
- Measures dose $H^*(10)$ of gamma and X-ray radiation.
- Determines gamma, X-ray and neutron radiation intensity.

BRANCHES OF USE



CUSTOMS AND BORDER SERVICES



INDUSTRY



LAW ENFORCEMENT AGENCIES



RADIOACTIVE WASTE STORAGE SITES

High-sensitive search device of a new generation that is successfully used for radiation monitoring of borders of CIS member states according to the international technical assistance programs.

Complies with the international standards ANSI 42.32 and ANSI 42.33.

Built-in GPS/GLONASS receiver.

