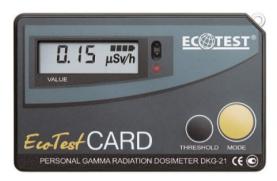
CE





ТУ У 33.2-22362867-010:2007



Meets the requirements of IEC 61526 standard

Number U2514-07 in State Register for Measuring Instruments

State Sanitary-Epidemiological Conclusion # 05.03.02-04/25552 of May 23, 2007

Branches of Use

- · Nuclear power industry
- · Emergency Services and Civil Defense
- · Radiological laboratories
- · Labor protection
- Medicine
- Sanitary and epidemiological services
- · Ministry of Internal Affairs
- Metallurgy
- · Mining industry
- Radioactive waste storage sites

Purpose of Use

- Measurement of gamma and X-ray radiation individual dose equivalent rate (DER).
- Measurement of gamma and X-ray radiation individual dose equivalent (DE).
- · Clock, alarm clock.

Application

The dosimeter may be used as an electronic direct reading device. It can be applied together with "PDC ECOMONITOR" software and as a stand-alone device.



Specifications

Specifications		
Measurement ranges and main relative errors:		
- gamma and X-ray radiation individual dose equivalent rate $H_{\mbox{\tiny P}}(10)$	μSv/h	0.11 000 000; (110 μSv/h; ±20%; 10 μSv/h1 Sv/h; ±10%)
- gamma and X-ray radiation individual dose equivalent H _P (10)	mSv	0.001 9 999 ; ±15%
Energy range of detected gamma and X-ray radiation and energy dependence	MeV	0.05 6.0 (0.05 1.25; ±25%)
Recording resolution of dose accumulation history in the nonvolatile memory	minutes	5 255
Time of data storage in the nonvolatile memory	years	not less than 10
Data exchange rate through infrared port	bit/s	38 400
Positive data exchange distance between the dosimeter and the infrared port adapter	m	not more than 0.3
Lithium battery (CR2450) life*	hours	2 200
Operating temperature range	°C	-10 +50
Weight	kg	0.08
Dimensions	mm	90 x 55 x 10

^{*} under gamma background not more than 0.3 µSv/h, switched off alarm system

Features

- Stand-alone use or use within automated system of personal dosimetry control.
- Storage of dose accumulation history in the nonvolatile memory with real time reference.
- Transfer of dose accumulation history through the infrared port to the computer.
- Blocking the mode of power supply switch off until the data reading procedure finished.
- DER and DE threshold levels programming of gamma and X-ray radiation with the help of the computer or manually with control keys.
- Blocking certain indication modes in response to the computer command.
- Light and audio alarms when programmed threshold levels exceeded on DER and DE of gamma and X-ray radiation.



Features (continued)

- Display automatic switch off if current gamma background is lower than the preset threshold level with instant switching on at:
 - pressing any control key;
 - gamma background increase above the preset threshold level;
 - alarm clock ringing.
- · Periodic self-testing of batteries and detector.
- · Energy-compensated Geiger-Muller counter.

Delivery Kit

- · DKG-21"EcotestCARD" dosimeter;
- · operating manual;
- · case with a clip;
- · packing box.



