# Dosimeter-radiometer MKS-05 for household use

# **TERRA-P**



Number U1524-01 in State Register for Measuring Devices

Hygienic conclusion of the State Sanitary-Hygienic Expertise # 5.10/6300 of February 20, 2002

ТУ У 33.2-22362867-006-2001

# Purpose of use

- Measurement of gamma radiation equivalent dose rate.
- Measurement of gamma radiation equivalent dose.
- Evaluation of surface contamination by beta radionuclides.
- Clock, alarm clock.

# Household application

- Apartment, building and construction control; personal radiation safety; ground-surface continuous territories control; and vehicles control.
- Evaluation of radiation contamination of farm products.
- Visual aids for educational institutions.

Specifications		
Measurement ranges and basic rela	tive errors:	
- Gamma radiation equivalent dose rate	μSv/h	0.1 999.9 ; ±25%
- Gamma radiation equivalent dose	mSv	0.001 9 999 ; ±25%
<ul> <li>Beta-particles flux density with possible evaluation of surface contamination by beta radionuclides (<sup>90</sup>Sr+<sup>90</sup>Y)</li> </ul>	1/(cm²⋅min)	10 100 000;

#### Specifications (continued)

Energy ranges of measurement and energy dependence:

<ul> <li>Gamma and X-ray radiation</li> <li>Beta radiation</li> </ul>	MeV MeV	0.05 3.0 ; ±25% 0.5 3.0 ;
Battery life	hours	6 000
Operating temperature range	°C	-10 +50
Weight	kg	0.2
Dimensions	mm	120 x 52 x 26

## Features

**TERRA-P** 

- Three independent measuring channels with alternate indication of data on the single liquid crystal display.
- \* Built-in gamma, beta sensitive Geiger-Muller counter.
- \* Automatic setting of measurement intervals and ranges.
- \* Audio signalling of each detected gamma-quantum and beta-particle.
- \* Programming of audio alarm threshold level relative to gamma radiation dose rate.
- \* Digital display.
- \* Two AAA size batteries.
- \* Four-level indication of power supply discharge.
- \* Shock resistant frame.
- \* Small weight and dimension parameters.

### **Delivery kit**

- MKS-05 "TERRA-P" dosimeter-radiometer;
- operating manual;
- cardboard box.

A leather case used to carry the device on a waist-belt or wristlet can be ordered at extra cost.

MKS-05 "TERRA" dosimeter-radiometer is recommended by the Scientific-Methodical Council under the Ministry of Education of Ukraine for use in educational process in secondary schools.

(Protocol #440 of June 7, 2001)

