



TY Y 33.2-22362867-006-2001

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

*State Sanitary-  
Epidemiological  
Conclusion for use  
in educational  
establishments  
# 05.03.02-04/  
20545 of  
April 09, 2009*

### ***Branches of Use***

- Educational programs
- Household use

### ***Purpose of Use***

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

### ***Household Application***

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

### ***Specifications***

#### ***Measurement ranges and main relative errors:***

- Gamma radiation ambient dose equivalent rate	$\mu\text{Sv/h}$	0.1 ... 999.9 ; $\pm 25\%$
- Gamma radiation ambient dose equivalent	mSv	0.001 ... 9 999 ; $\pm 25\%$
- Beta-particles flux density with possible evaluation of surface contamination by beta radionuclides ( $^{90}\text{Sr}+^{90}\text{Y}$ )	$1/(\text{cm}^2 \cdot \text{min})$	10 ... 100 000

**Specifications (continued)**

**Energy ranges of measurement and energy dependence:**

- Gamma radiation	MeV	0.05 ... 3.0 ; ±25%
- Beta radiation	MeV	0.5 ... 3.0
Measurement time intervals	seconds	5 ... 70
Battery life	hours	6 000
Operating temperature range	°C	-10 ... +50
Weight	kg	0.15
Dimensions	mm	120x52x26

**Features**

- 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 signaling of each detected gamma-quantum or beta-particle.
- Programming of audio alarm threshold level of gamma radiation dose rate.
- Liquid crystal display.
- Two AAA size batteries.
- Four-level indication of battery discharge.
- Shock resistant body.
- Small weight and dimension parameters.

**Delivery Kit**

- MKS-05 "TERRA-P" dosimeter-radiometer;
- operating manual;
- leather case;
- packing box.

**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.**

