

**PURPOSE**

BDMG-96 is designed to be used as a part of dosimeter-radiometer MKS-08 (with measurement console UIK-05, UIK-05-01 or UIK-06).

It is allowed to control the radiation situation in a wide range of dose rates of gamma radiation.



**FEATURES**

- wide measurement range;
- high sensitivity and wide energy range;
- operation in harsh weather conditions.

**SPECIFICATIONS**

Type of registered radiation	ADER $\gamma$ , ADE $\gamma$
Energy range of registered gamma particles	50 keV - 3 MeV
Measurement range of ambient dose equivalent rate $H^*(10)$ of gamma-radiation	0,1 $\mu\text{Sv/h}$ - 10 Sv/h
Measurement range of ambient dose equivalent $H^*(10)$ of gamma-radiation	0,1 $\mu\text{Sv}$ - 10 Sv
Limits of tolerable intrinsic relative error, %	$\pm (15 + 2/Ax)$
Energy dependence (gamma-channel)	$\pm 25 \%$
Typical sensitivity, no less: <ul style="list-style-type: none"> <li>• sensitive subchannel</li> <li>• rough subchannel</li> </ul>	4,0 $\text{s}^{-1} \cdot \mu\text{Sv}^{-1} \cdot \text{h}$ 4,0 $\text{s}^{-1} \cdot \mu\text{Sv}^{-1} \cdot \text{h}$
Type of detector	Counter type CBM-20 Counter type Gamma-1-1
Active area of detector, $\text{cm}^2$	15 $\text{cm}^2$
Continuous operation time, no less	$\geq 24$ h
Overall dimensions, mm	$\varnothing 40 \times 250$
Weight, kg	0,3
<i>Note: where Ax – numerical value measured value</i>	

**ENVIRONMENT**

- operating temperature range: from minus 20 °C to +50°C;
- relative humidity up to 95% at +35°C;
- atmospheric pressure from 84 to 106,7 kPa;
- protection class – IP 67;
- housing easy to decontaminate

**RELIABILITY AND GUARANTEES**

- working resource before the complete overhaul is 10000 hours for 10 years of operation;
- overhaul period is 5000 hours upon condition of average amount of repairs for the service period;
- warranty period of operation is 18 months from the moment of putting into operation or if the guarantee period of storage is expired.
- guarantee period of storage is 6 months from the sale date