



Information display instrument

Branches of Use

- Emergency Services and Civil Defense
- Law enforcement agencies
(Army, Ministry of Internal Affairs, State Security Services)
- Nuclear power industry
- Radiological laboratories
- Radioactive waste storage sites
- Labor protection
- Metallurgy
- Mining industry
- Sanitary and epidemiological services

Purpose of Use

- Display of measurement results of ambient dose equivalent rate (DER) of gamma radiation obtained from the BDBG-09 detecting unit of gamma radiation.
- Real time display.
- Display of ambient temperature.
- Audio and light alarming when threshold levels of gamma radiation DER exceeded.

Specifications

- DER display range - $0.01 \dots 10^7 \mu\text{Sv/h}$.
- Number of digits for DER display – three.
- Real time display error - not more than ± 0.1 minute per 48 hours.
- Number of digits for real time display – four.
- Ambient temperature display range - from -40 to $+50 \text{ }^\circ\text{C}$.
- Temperature display error - not more than $\pm 1^\circ\text{C}$ in the range of -15 to $+50 \text{ }^\circ\text{C}$ and not more than $\pm 2 \text{ }^\circ\text{C}$ in the range of -40 to $-15 \text{ }^\circ\text{C}$.
- Number of digits for temperature display – two.
- Three threshold levels programming in the range of $0.01 \mu\text{Sv/h}$ to 9.99 Sv/h with $0.01 \mu\text{Sv/h}$ discreteness.

Specifications (continued)

- Signaling when threshold levels exceeded – audio (with different soundings for each threshold level), and light (color change of DER measurement display).
- Operation in the network through the RS-485 interface.
- Power supply from industrial network (220 V) through the power adapter.
- Operating mode – 24-hour continuous.
- Distance between the panel and the detecting unit - from 0.5 to 50 m.
- Dimensions - not more than 748 x 135 x 40 mm.
- Weight (without the power adapter) - 2.05 kg.
- Mounting method – upright wall-mounted.

Operating conditions

- Air temperature from -20 to +50 °C.
- Relative humidity – up to 95 % at +35 °C, and lower temperatures, non-condensing;
- Atmospheric pressure – from 84 to 106.7 kPa.

Delivery Kit

- IT-09T data panel;
- kit of the BDBG-09 detecting unit of gamma radiation;
- connecting cable;
- 220 V power adapter;
- operating manual;
- packing box.