

## **RAD-35 Personal Nuclear Radiation Meter, radiation dosimeter, portable radiation measuring instrument**

### **Description**

RAD-35 MODEL is a portable  $\beta$  and  $\gamma$  radiation measuring instrument. Built in a high sensitive gamma beta Geiger-Muller counter. With fast response, wide measuring range characteristics. Using for measuring X-ray, gamma and beta radiation. It's a multipurpose radiation dose rate measuring instrument.

### **Purpose of Use**

1. Measurement of gamma radiation ambient dose equivalent rate;
2. Measurement of gamma radiation ambient dose equivalent;
3. Measurement of surface beta-particles flux density;
4. Measurement of ambient dose equivalent accumulation time;
5. Real time measurement (clock).

### **Applications**

1. Nuclear facilities around environmental radiation detection
2. The soil surface radiation pollution detection
3. Agricultural radiation pollution detection
4. Ore, building materials radioactive detection
5. Personal dose monitoring alarm
6. Industrial X, gamma NDT radiation detection
7. Radiation medical treatment place radiation detection
8. Cobalt source, electronic accelerator irradiation place radiation detection
9. Radioactive radiation laboratory detection

### **Features**

1. Large area digital LCD display backlight;
2. Built-in gamma, beta sensitive Geiger-Muller counter;
3. Simultaneously dose rate and cumulative dose measurement
4. Automatic setting of measurement intervals and ranges;
5. The maximum dose rate values keep function
6. Automatic setting of measurement intervals and ranges;
7. Automatic save dose value.
8. Programmable dose rate alarm and cumulative dose alarm threshold
9. Programmable voice, light and vibration alarm way
10. Battery voltage and low battery indication;
11. Automatic failure detection function

### **Specifications**

1. Measurement ranges:  
dose equivalent rate ( $^{137}\text{Cs}$ ):  $0.01 \mu\text{Sv/h} \sim 10\text{mSv/h}$   
dose equivalent ( $^{137}\text{Cs}$ ):  $0.01\mu\text{Sv} \sim 9999\text{Sv}$
2. Energy ranges:  
X and Gamma radiation:  $40\text{Kev} \sim 3.0\text{MeV}$
3. Beta radiation :  $0.5 \sim 3.0\text{MeV}$
4. Energy dependence:  $\leq \pm 25\%$  relative to  $^{137}\text{Cs}$
5. Relative errors :  $\leq \pm 10\%$  in  $20\mu\text{Sv/h}$

7. Dose rate and dose alarm threshold value: full range can be adjusted
8. Protective alarm response time: not more than 3 seconds (in 10 uSv/h)
9. Display unit:
  - Dose rate : uSv/h,mSv/h,Sv/h automatic conversion
  - Dose : uSv , mSv ,Sv automatic conversion
10. Battery : One AAA battery
11. Operating temperature range □ -20°C~+50°C
12. Weight and Dimensions□ 120g ,125×55×26 mm