

R100 type X γ personal dose (rate) alarm



Description

The R100 γ personal dose (rate) alarm is a radiation detector with high-performance microprocessor and high-sensitivity energy-compensated GM tube , it has quick response to radiation of different energies . It fully considers the use in harsh environments, high-impact shock resistance, high temperature and low temperature, provides reliable and accurate measurement data, light weight, high strength body, very strong.R100 has the ability to measure the dose equivalent rate while accumulating the dose equivalent; with sound and light and vibration alarm function, the user can customize the alarm threshold and the dose equivalent reminder value according to actual needs. Through the host computer software R100 can also communicate with the computer, convenient for users to download, analyze and store the dose data.

R100 X γ personal dose (rate) alarm instrument can be widely used in nuclear power plants, environmental protection bureaus, anti-chemical units, entry and exit inspection and quarantine, customs personnel related radiation dose monitoring; irradiation plant, thickness gauge, non-destructive testing, level gauge, The nuclear scale is called the radiation dose monitoring of practitioners; it is engaged in radioactive treatment, nuclear technology application,

uranium radium mine and other practitioners radiation dose detection.

Product Features

- High sensitivity, fast response
- With dose rate and cumulative dose over-limit alarm function
- Preset alarm threshold and alarm prompt mode
- Simultaneous measurement of dose equivalent rate and cumulative dose equivalent, split screen display
- Two AA dry battery power supply, with battery under voltage alarm function
- The clock display function, the data is saved after shutdown, and the clock runs as usual (the battery is not removed)
- USB data interface, can communicate with computer, equipped with personal dose management software
- Using single-chip technology, with many functions, small size, easy operation and easy to use
- Single instrument, can set 10 groups of user numbers, the function does not interfere with each other

Instrument Specification

detector	GM counter tube (energy compensated)
Measuring range	Dose equivalent rate: 0.01 μ Sv/h \sim 99.9mS/h Dose equivalent (cumulative dose): 0.00 μ Sv \sim 10Sv
Energy response	20keV \sim 3MeV ($\leq \pm 25\%$)
Sensitivity	1 μ Sv/h \geq 2cps (relative to Cs137)
Display method	Liquid crystal display, dose equivalent rate (μ Sv/h) and dose equivalent (μ Sv)
Relative error	Dose equivalent rate $\leq \pm 10\%$, dose equivalent $\leq \pm 10\%$
Protection alarm response time	≤ 2 seconds (at the dose equivalent rate $\geq 15 \mu$ Sv / h)
Power consumption	<2.5mW, Continuous operation for up to 30 days
Dimensions	116(H) \times 60(W) \times 22(D)
net weight	76g (without battery)
Operating temperature	-10 $^{\circ}$ C \sim 50 $^{\circ}$ C
Relative humidity range	$\leq 90\%$ RH (40 $^{\circ}$ C)

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