

Nuclear radiation detector GC-01 & GC-02

Introduction

The GC01 & GC02 are precision and reliable radiation meters, which measure for β particles, χ rays and γ rays. The devices adopt the technology of Geiger-Miller counter, can provide precise radiation dose measurement and shows comprehensive testing results. It is a necessary assistant for you to perceive radiation dose surrounding when you're in nuclear facilities, medical radiation environments, or handling radioactive materials.

- Geiger counter tube precision test
- Detect β particles, χ rays and γ rays
- Interconvertible measurement units
- Languages: Chinese/English



GC-01



GC-02



Geiger counter tube



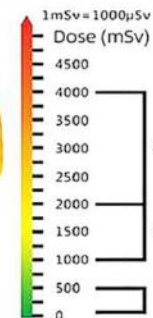
Multifunctional Page Real-Time



International standard:

- Radiological worker: 20mSv/year (10 μ Sv/h)
- General public: 1mSv/year (0.5 μ Sv/h)
- 1 μ Sv/h = 100 μ R/h; 1uR=y

Medical Response To Short Time High Dose Radiation



The whole body is measured instantly

- >4000 — Die
- 2000-4000 — Several ray diseases are produced: Bone and bone mineral density track until the number of destroyed red blood cells and 100 cells decreases gradually, with symptoms of internal bleeding, vomiting, and diarrhea
- 1000-2000 — Mild ray sickness, fatigue, vomiting, decreased appetite, temporary alopecia, decreased red blood cells
- 100-500 — No feeling of illness but the white blood cells in the blood sample are decreasing
- <100 — no harm to human body

	GC-01	GC-02
Ray types	β particles, χ rays and γ rays	β particles, χ rays and γ rays
Impulse Dose rate	0.00-10000 μ Sv/h(10mSv/h); 5 bit digit	0.00-10000 μ Sv/h(10mSv/h); 5 bit digit
Dose Accumulation	0.00 μ Sv-500.0mSv; 5 bit digit	0.00 μ Sv-500.0mSv; 5 bit digit
Detection sensitivity	150CPM/ μ Sv(for Co-60)	80CPM/ μ Sv(for Co-60)
Sensor	Energy Compensated GM tube (Geiger counter tube)	Energy Compensated GM tube (Geiger counter tube)
Units of measurement	μ Sv/h, μ Gy/h,mR/h,cps,cpm (interconvertible)	μ Sv/h, μ Gy/h,mR/h,cps,cpm (interconvertible)
Energy range	48keV-1.5Mev \leq \pm 30% (for 137Cs-)	
Display	IPS high-definition LCD screen	1.5-inch IPS high-definition LCD screen
Battery Life	10 hours	6 hours
Monitor mode	/	10 sets time ranges to record surrounding radiation does.
Auto sleeping	/	✓
Languages	English/Chinese	English/Deutsch/Japanese/Portuguese/Spanish/Russian/Korean/Chinese
Alarm method	light, vibration, buzzer	

General Characteristics

	GC-01	GC-02
Battery	3.7V/1100 mAh lithium battery	3.7V/850 mAh lithium battery
Product net weight	145g	73g
Product size	123*78*26mm	106.5*44.5*25mm
Standard carton	47*44.5*41.5cm	53*39*29.5cm
Carton gross weight	19.7kg	13.6kg
Quantity per carton	80PCS	100PCS