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RECISION. RELIABILITY. QUALITY.

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High performance detection with a CsI (TI) scintillator

Radiation measurement is displayed in large LCD display.

Unit: microsieverts per hour (µSv/h)

Sievert (Sv): a radiation unit used to quantify the effect of radiation on the human body.

Starts measurement.

Automatic power off function after 3 hours.

The Radi can measure radiation levels ranging from normal natural radiation to levels 100 to 200 times that intensity.

Even non-specialists will find it easy to accurately measure radiation of 0.001 - 9.999 μ Sv/h.

Types of radiation

- Alpha rays (a): Alpha rays are streams of positively charged particles made up of two neutrons and two protons (helium nucleus). In the natural world, alpha rays are given off by radium 226. In air, the particles cannot travel more than a few centimeters.
- Beta rays (β): Beta rays are streams of electrons. In air, the particles can travel several dozen centimeters in a zigzag pattern.
- Gamma rays (γ): Gamma rays, the most penetrating type of radiation, are electromagnetic waves. They can pass through the human body. X-rays that are used in X-ray machines are also electromagnetic waves.

Radiation units

- Becquerel (Bq): The becquerel (Bq) is the unit of radioactivity. The radioactivity of a substance measured in becquerels is the number of its nuclei that decay each second.
- Gray (Gy) and Sievert (Sv): These units express the effect of radiation. The gray expresses the amount of radioactive energy received, while the sievert expresses the effect on a human being. Normally the gray and the sievert are used to express quantities per hour; the units are Gy/h and Sv/h, respectively.

The International Commission on Radiological Protection (ICRP) has recommended exposure to the general public of no more than 1 mSv per year to manmade radiation (not including natural radiation). This does not include exposure from medical checkups (such as X-rays). (1 mSv = 1000μ Sv)

HORIBA continues contributing to the preservation of the global environment through analysis and measuring technology.



• Splash-resistant construction (JIS water resistance protection grade IPX4) The Radi can be used with confidence even if there are water droplets on the surface.

- •Handy unit is both compact and lightweight.
- Uses two AA batteries. Battery life 50 hours or more (when manganese dry cell batteries are used)

Selectable] Audible beep when radiation is detected.

Specifications

Scintillation
Gamma rays (y)
Min. 1000 counts per minute (1000 cpm) for 1 µSv/h
±10%
Max. 0.1 coefficient of variation
More than 150 keV
0.5 - 3* (150 keV - 1250 keV)
0.001 - 9.999 μSv/h
4-digit digital display
(count value converted into µSv/h)
60 seconds
60-second integrated value (moving average) displayed every 10 seconds
68 (W) × 28 (D) × 121 (H) mm [Inch size : 2.7 (W) × 1.1 (D) × 4.8 (H)]
Max. 175 g (6.2 oz)
Instruction manual, two AA dry cell batteries, neck strap

* Relative sensitivity with 1 as the sensitivity to cesium 137 (137Cs) (662 keV).

Note: This unit is designed only to measure the quantity of radiation at the measurement location. It does not determine the safety or danger posed by that quantity of radiation.

