Mini SURVEY METER TA100U

MADE IN JAPAN

Equipped with spectrum analysis for gamma ray and CdTe semiconductor detector

μSv/h

This device is a handy type compact dosimeter which not only displays the general dose rate display ($\mu Sv / h$) but also the gamma ray nuclide is found by spectrum (graph). It is possible to transfer data to PC by USB communication.

Range of dose rate 0.01 μSv / h – 10 mSv / h

Detector CdTe 10 x 10 x 1 mm

Energy response Within ± 15 % (Energy compensation)

Energy range 20 keV - 1.5 MeV

Energy resolution 3 % (Cs-137, 662 keV, Typ.)

Throughput 50,000 cps

Sensitivity 800 cpm (μSv / h)

Function Identifies dose rate, cumulative dose,

spectrum and nuclide

Overview

The detector of this device uses a CdTe (cadmium telluride) semiconductor. It has higher atomic number (48, 52) than silicon semiconductor, has high energy radiation absorption power, and can operate at normal temperature. This detector has excellent energy resolution of 3% (Cs-137, 662 keV gamma ray). In spectral mode, nuclide identification is possible and discrimination between Cs-134 and Cs-137 is possible. Energy compensation is realized by the latest electronic circuit and accurate dose rate is displayed in a wide range of 0.01 μSv / h to 10 mSv / h. The power supply can be used for about 15 hours continuously with built-in lithium battery. It adopts organic EL display and it is very compact but it is easy to see. It has PC application software for Windows, so it is possible to transfer data to the PC via USB communication and save the file in CSV format.

Specifications

| opcomoduons | |
|---------------------------------|---|
| Range of dose rate | 0.01 µSv / h - 10 mSv / h |
| Detector | CdTe semiconductor 10 x 10 x 1 mm |
| Energy response | Within ±15 % (Energy compensation) |
| Energy range | 20 keV to 1.5 MeV |
| Energy resolution | 3 % (Cs-137, 662 keV, Typ.) |
| Throughput | 50,000 cps and more |
| Sensitivity | 800 cpm (μSv / h) |
| Dose rate time constant | AUTO, 3 sec, 10 sec, 30 sec, 60 sec, 90 sec |
| Dose rate energy compensation | 512 stages |
| Alarm function | Alarm by threshold of dose rate |
| Energy spectrum | 512 channels |
| Nuclide identification function | 11 nuclides such as Cs-134, Cs-137, I-131, Co-57, and Co-60 |
| Indicator | Organic EL display 128 x 64 dots |
| Built-in power | Lithium ion polymer charging battery, 2000mAh |
| Operating time | About 15 hours in a row |
| External dimensions | Main unit: 67 (W) x 115 (H) x 28 (D) (Unit: mm) |
| Weight | About 180g |
| Environmental condition | Operating temperature: 0 – 40 degrees, No dew condensation |

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Spectrum mode

As an example: Cs-134 and Cs-137 of soil



Dose rate mode
(Time constant AUTO,
dose rate and accumulated dose)



*Images is for illustration purpose.

*Please note that contents may change without prior notice.

Website



Manufacture of Radiation and Radioactivity measurement devices

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