

Spectrum Survey meter TS215

MADE IN JAPAN

μSv/h

For γ-ray energy-compensated with 1.5 inch LaBr₃(Ce) scintillator

TS215 is a spectra survey meter with energy compensated for gamma-ray with 1.5 inch LaBr₃(Ce) scintillator. It can be used for dose rate measurement in a wide range. The different time constant chart will be indicated on the LCD color display. Therefore we can check time variation of dose rate and energy spectra in real time. It is possible to the data transfer to PC by using an add-on interface feature.

- Range of dose rate 0.001μSv/h~600μSv/h
- Detector LaBr₃(Ce) scintillator Φ1.5" × 1.5"
- Energy response Within ±10% (Energy-compensation)
- Energy range 30keV~3MeV
- Energy resolution 2.8~3.7% (¹³⁷Cs, 662keV, typ.)
- Throughput 100kcps
- Sensitivity 60,000cpm/μSv/h ¹³⁷Cs
- Function Dose rate, Spectrum measurement, Nuclide identification (20 nuclides)



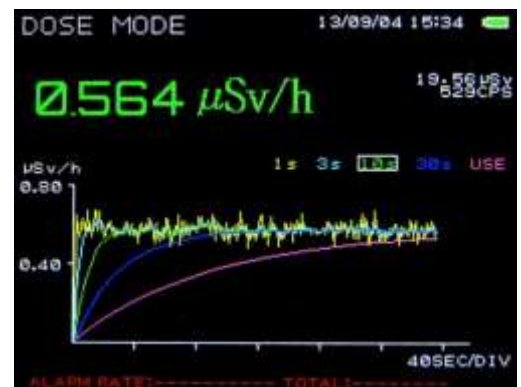
TS215

Overview

TS215 is a spectra survey meter with a 1.5 inch LaBr₃(Ce) scintillator which is a high function. The energy resolution is excelled about 3% (¹³⁷Cs, 662 keV typ.). This resolution is high resolution compare with general NaI(Tl) scintillator. Damping time constant is very high-speed at 16 ns. Therefore it is possible to measure in a wide range, 0.001 μSv/h ~ 600 μSv/h at a high sensitive. It can be a high-speed digital filters, and high-precision energy correction by using a new digital signal processing circuit (DSP: Digital Signal Processing). It is able to a nuclide identification and quantitative measurement from spectra measurement function. TS215 is using a rechargeable lithium ion battery.

Specifications

Dose rate time constant	1 sec, 3 sec, 10 sec, 30 sec, user setting
Alarm function	Dose rate Integrating dose rate
Energy spectrum	2048 channels
Nuclide identification function	20 nuclides such as, ¹³⁴ Cs, ¹³⁷ Cs, ¹³¹ I, ⁶⁰ Co, ⁴⁰ K, etc.
Display	LCD color display 320 x 240 dots
Power (Li-ion battery)	3,000mAh Recharged from AC adapter
Operating time	About 7 hours
External dimensions (Unit: mm)	Main unit 101(W) x 195(H) x 44(D) Detector 45(W) x 188.5(H) x 45(D) *without cable connector
Weight	About 1.2kg
Environmental condition	Operating temperature: 0~40 °C, No dew condensation



Display of dose mode

※Dose rate time constant: 1 sec (yellow), 3 sec (aqua), 10 sec (green), 30 sec (blue), user (pink)



Display of spectrum mode

*Images is for illustration purpose.
*Please note that contents may change without prior notice.

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Design and fabrication of electronic circuit associated with measurement control and radiation measurement

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Updated on 2017/03/30