

S.E. International Digital Radiation Detector **Frisker**



The Radiation Frisker detects alpha, beta, gamma, and X-ray. It has the ability to take readings in multiple different units of measure, customize alarm levels, and comes equipped with a backlit display.

The Frisker is a light weight, single-handed radiation contamination instrument that has been designed to meet the demands of today's radiation personnel for leak testing, surface monitoring, sample screening, and personnel screening. By integrating the latest electronics with a proven and dependable Geiger Mueller detector, S.E. International has created a rugged, ergonomic Geiger counter that addresses a number of radiological applications.

Applications & Uses

Screening personnel and objects, such as packages, surfaces, and clothing, Surveying for NORM (Naturally Occurring Radioactive Material) contamination, Gross wipe counting, Contamination surveys of packages, equipment, people, etc., Regulatory inspections, Low energy radionuclide detection

Detector

Halogen-quenched GM tube with thin mica end window. Mica window density 1.5-2.0 mg/cm². Effective diameter of window is 45 mm (1.77 in.). Side wall is .012 inch thick.



Energy Sensitivity

Detects Alpha down to 2 MeV. Detects Beta down to .16 MeV; typical detection efficiency at 1 MeV is approx. 25%. Detects Gamma down to 10 KeV through the detector window. 3600 CPM/mR/hr (137Cs). Smallest detectable level for 125I is .02 μCi at contact.

Built-in Efficiencies

None

Averaging Periods

None

Operating Range

Up to 50 mR/h. Instrument begins readings in μR/h and changes to mR/h at 1000 μR/h

Up to 500 μSv/h. Instrument begins reading in nSv/h and changes to μSv/h at 1000 nSv/h

Accuracy

Reference to Cs137
Typically ±15% from factory, ±10% with NIST Source Calibration
NIST Calibration

Anti-Saturation

Readout will OVERRANGE in radiation fields as high as 100 times the maximum reading.

Selectable Alert Set Range

Pulsating beeper sounds the alert. Adjustable alert levels are used for μR/hr / CPM, and nSv/hr / CPS.

Display

Backlit liquid crystal display with mode indicators.

Outputs

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Audio Indicator

Sounds with each count (can be switched off for silent operation)

Count Light

Red LED flashes with each count.

Power Requirements

Two (2) AA alkaline batteries (included). Battery life is approx. 800 hours at normal background radiation levels.

Temperature Range

-10° to +50°C (14° to 122°F)

Humidity

10% to 70% Non-Condensing.

Size

276 x 44 x 64 mm (10.88 x 1.75 x 2.5 in.)

Weight

217 g (7.7 oz.)

Includes

Carrying Case, Lanyard, Batteries, and Protective Boot. Protective boot fits most industry standard dose rate and compensation filters.

Options

NIST Calibration

Limited Warranty

1 year limited warranty