

SCINTO

portable radiation survey meter with scintillation detector (NaI)



Use and function

The illegal trade with radioactive material requires increased security measures at borders, airports, international ports and all security areas in order to detect radioactive sources in a reliable way and protect people for danger.

For this kind of security checks it is evident to become a quick result. With its NaI-scintillation detector, the SCINTO belongs to the fastest and most sensitive dose rate meters, being 500 - 1000 times as sensitive as a conventional Geiger-Müller counter tube. This makes it possible to use the SCINTO for reliable measurement and radiation detection in a range starting from natural background level.

Fields of application

- to check people or transports, vehicles or goods for the presence of radioactivity, e.g. for customs check or general security purposes
- to locate and segregate very precisely radioactive material or radioactive sources in a truckload or a railcar after an alarm was generated by a stationary system
- to check non-identified baggage, e.g. before opening
- for checking in the recycling field

S|E|A

Strahlenschutz- | Entwicklungs- | und Ausrüstungs-
Gesellschaft mbH

Technical data

Radiation type: X-ray and γ -radiation from 25 keV - 1.3 MeV

Detector: high-sensitive NaI scintillation detector
• version A: with 1 x 1.5" NaI-detector
measuring range: 40 nSv/h - 500 μ Sv/h
• version B: with 1.5 x 2" NaI-detector
measuring range: 40 nSv/h - 200 μ Sv/h

Alarm thresholds: 3 definable alarm thresholds, optical and acoustic alarm

Data storage: memory for 750 data records

Electronics: μ -controller-based measuring electronics with intelligent battery charge electronics

Interfaces: RS 232 for PC-system
connection socket for external probes,
e.g. GM-tubes or contamination probes
connection socket for charging adapter

LCD-display: graphic-LCD-display (128 x 64 pixels), illuminated digital measuring value display of count rate (cps) or dose rate (nSv/h, μ Sv/h or mSv/h)

Keyboard: 5 function keys, functions depending on menu (explained on LCD-display)

Housing: ergonomically shaped plastic housing (PA6)

Temperature: -20° C till + 50° C

Power supply: 2 batteries or rechargeable batteries type AA, Mignon 1.5 V

Dimensions: approx. 300 x 120 x 135 mm (L x W x H, incl. handle)

Weight: 750-900 g



Options/Accessories

- transport and storage case
- nylon bag
- rechargeable batteries and charging adapter
- external GM-counter tubes for dose rate measurement
- external plastic scintillation detectors for contamination measurement
- software for read-out and further processing of stored measuring data