

SCINTO – Mobile Radiation Detector

Art.No. 0400200



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 safe-deposit box plants in banks
- to check non-identified baggage, e.g. before opening
- for checking in the recycling field
- to trace smoke ionisation detectors after a fire in a building

Technical data

Radiation type	X-ray and γ -radiation from 25 keV - 1.3 MeV
Detector	high-sensitive NaI scintillation detector <ul style="list-style-type: none"> • version A: with 1 x 1.5" NaI-detector measuring range: 40 nSv/h - 500 μSv/h • version B: with 2 x 2" NaI-detector measuring range: 40 nSv/h - 200 μSv/h
Flashing red LED: BT	Low battery indicator
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

Technical data

- 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