

SCINTO

Mobile survey meter with NaI scintillation detector



The ability to detect radioactive materials is important in many industries, particularly in those where radioactivity is not wanted such as border controls, recycling centres and emergency response, as well as those industries where material is needed. The SCINTO is an easy-to-use, highly sensitive instrument, equipped with an NaI scintillation detector. It is approximately 500-1000 times more sensitive than the more common GM detector, able to measure and detect radiation at natural background levels.

Benefits

- Low 25 keV detection threshold
- Fast employment (<4 s)
- 30h operation with standard batteries (Type AA)
- Cps and dose rate (Cs-137) available
- External probes optionally available
- Telescopic version available

Key figures

3 → Versions with different detector sizes

25keV - 1.3 MeV
→ Energy range

IP54
→ IP Rating

Applications

- The control of persons, goods, vehicles, etc. for radioactivity for customs or security checks
- For identifying the precise location of radioactive material following a portal alarm (e.g. in trucks, railway carriages, cars etc)
- Checking deposit boxes in banks
- Checking unidentified luggage
- Recycling centres
- Finding ionisation smoke detectors after a building fire

Technical Data

Radiation type	Gamma radiation from 25 keV to 1.3 MeV
Detector	Highly sensitive NaI scintillation detector
Version A	1 x 1.5" NaI detector Measuring range: background – 500 µSv/h (Cs-137)
Version B	1.5 x 2" NaI detector Measuring range: background – 200 µSv/h (Cs-137)
Version C	1.5 x 3" NaI detector Measuring range: background – 150 µSv/h (Cs-137)
Alarm thresholds	3 user defined alarm thresholds Visual and audio alarms
Data storage	Up to 750 data sets
Electronics	Microprocessor based measuring electronics Intelligent battery charging
Interfaces	RS 232 for a PC System Socket for connection of external probes (e.g. GM counters or contamination probes) Socket for BT module for wireless data transmission
LC display	Backlit graphic LC display (128 x 64 px) Digital display of the count rate (cps) or dose rate (nSv/h, µSv/h, mSv/h) as Cs-137 equivalent
Keyboard	5 hot keys (functions depending on the menu, with user guidance on-screen)
Housing	Ergonomic plastic case
Dimensions	Approx. 300 x 120 x 135 mm (L x W x H, incl. handle)
Weight	750 – 900 g
IP Rating	IP 54
Temperature	-20°C to +50°C
Power supply	2 AA batteries



Accessories (optional)

- Solid case for SCINTO plus accessories
- Carrying bag
- Batteries and charging station
- External GM-probes for dose rate measurements
- External plastic scintillation detectors for contamination measurements
- Software for reading and processing acquired measurements