Closer to your application

Nuc Scout



Portable Gamma Identifier - Quantifier - Dose Rate Meter



Applications:

- the detection of radioactive sources by disposal companies or security forces
- the assessment of large-scale contamination based on geographic information systems (GIS)
- monitoring measurements of food and building materials
- in nuclear medicine

Features:

- the local dose rate and the activities of 28 user-definable individual nuclides can be measured over long periods of time
- large, bright touchscreen
- adjustable time interval with spectrum
- integrated GPS receiver for local assignment of the measurement data
- internal wireless network interface for sending measurement data to a base station up to several hundred meters away (optional)
- detachable 2 x 2" NaI(TI) detector for flexible positioning
- optional measuring table for Marinelli cups
- activity calculation of the individual nuclides with PSV algorithm and trapezoidal method
- the scope of delivery includes an extensive software package for the transfer, display and export of the measurement data. The software allows full remote operation of the device via USB or a wireless network



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Gamma probe

Detector NaI(TI) with integrated photo multiplier and HV supply

Detector size 2" x 2", optional 3" x 3"

Energy range 25 keV – 3 MeV

Resolution < 7,5 % (7 % typ.) @ 662 keV

Efficiency net count rate > 1100 cps / (μ Sv/h) for Cs-137

Max. count rate 100.000 cps

Dose rate range $0 \dots 15 \,\mu\text{Sv/h}$ for Cs-137

Spectrum 512 channels

Results single shot or over time

identification of up to 28 emission lines in four nuclide lists; nuclide-lists can be either created by user (based

on a library) or loaded as pre-defined list

calculation of net activity based on pre-defined or user

created efficiency calibrations

energy compensated local dose rate measurement

Stabilization electronic temperature stabilization, peak-pickup by PSV

analysis algorithm

General

Sampling cycles storage of up to 16 different measurement programs

(defined or infinite repetition) with intervals from 1s

to weeks

predefined cycles: 10s, 30s, 60s continuous and

5min, 15min, single shot

Data storage SD-Card to store more than 780.000 data records

Display touch screen 6cm x 9cm with back light, good readable

even in direct sun light

shows: status/ results / spectra

Interfaces USB and optional NetMonitors (ZigBee)

Power supply 18V mains adapter / NiMH battery with int. charger

operation: min. 8 h (typ. 14 h)

Dimensions 265 mm x 195 mm x 210 mm

Weight 2,5 kg
Rating IP65



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Software (included in delivery)

dVISION: device control and data transfer, visualization, data management, calibration, library management, export of KLM files for direct opening by Google Earth ™

dCONFIG: system configuration, creation of sample

cycles

NetMonitors

(ZigBee Standard)

wireless

frequency 2,4 GHz, power rate 100 mW

protocol IEEE 802.15.4 (range >300m in case of

network interface intervisibility)

GPS SIRF 3 (12 channels), GPS coordinates are

recorded and stored together with measurement results

GIS compatible KML files can be exported and

opened with Google Earth ™

Alert buzzer 85dB, red LED, display turns on automatically

showing the reason of alert

Scope of delivery USB cable, charger, transport case, SW and manual

(electronic version), calibration certificate

Optional accessories Sampling table for usage with Marinelli beaker (standard or

version with lead shield and scale), charger, USB cable, transportation case, NetMonitors network coordinator (connected via USB to PC) & instrument's adapter (must to

be built-in)





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