

SpectroTRACER



Spectroscopic measuring probe

- Automatic radionuclide identification
- Adapted to air, soil or water applications
- Data transmission for long routine and emergency surveillance
- Very low maintenance



SPECTROTRACER

SPECTROSCOPIC SOLUTION FOR ROUTINE AND EMERGENCY MONITORING

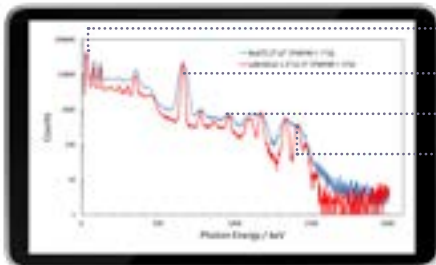
SpectroTRACER is a continuous operating measurement system for nuclide specific identification and low level gamma contamination monitoring in air/soil (SpectroTRACER Air/Soil) and liquids (SpectroTRACER Aqua). The monitor calculates the ground contamination (Bq/m²), the air concentration (Bq/m³) and the liquid concentration (Bq/l) for each identified nuclide as well as the dose rate H*(10).

Seismic test approved, SpectroTRACER is suitable both for day-to-day or emergency monitoring. It includes also as option redundant data transmission (incl. satellite data communication) in case of electrical blackout disabling mobile

phone networks.

The hermetically sealed SpectroTRACER probe is designed for operation under harsh conditions demanding minimum maintenance. Low power consumption enables stationary or mobile applications using battery back-up or solar supply.

Identify several nuclides in one measurement



Ba-133 peaks
Cs-137 peaks
Eu-152 peaks
Co-60 peaks

Figure: comparison between LaBr₃(Ce) and NaI(Tl) detectors sensitivity to identify nuclides

SpectroTRACER is available with 3 types of detector and sizes - NaI(Tl), CeBr₃ and LaBr₃(Ce) - depending on the expected sensitivity. All detectors allow the identification of several radionuclides in one measurement.

Secured & centralized surveillance system



From one probe to turnkey solutions, your data can be secured and saved in a MS-SQL central server and easily integrated in your internal processes or systems. Web based central data management is also available.

Versatile solution



Air monitoring

From very low to increasing radioactivity levels in the air



Soil monitoring

For ground contamination even in accidental conditions



Water monitoring

In nuclear facilities, water purification centers or outdoors (river, sea...) with special coating

Technical features

Detection principle	NaI(Tl), CeBr ₃ or LaBr ₃ (Ce) detector
Dimensions	Ø175x567 mm <i>(more compact version in option)</i>
Weight	6,4 kg max
Energy range	From 30 keV to 3 MeV (configurable)
Measurement range	NaI(Tl) 3"×3" up to 100 µSv/h CeBr ₃ 1,5"×1,5" up to 1 mSv/h LaBr ₃ (Ce) 1,5"×1,5" up to 1 mSv/h (all up to 1 Sv/h with optional GM tube, other crystals sizes available)
Data storage	2 TB storage (allows up to 1-year local storage in 10 min mode)
Additional sensors	Built-in: temperature, humidity Optional: meteor
Housing material	Nano-painted Aluminum (teflonized in option for water monitoring)
Communication interfaces	Ethernet, 4G/LTE, radio, WiFi, satellite (on request)