



RADIATION MONITORING and ANALYSIS SYSTEM -RADIAS-

Determining the type and source of ionizing radiation is crucial for effective intervention. RADIAS serves as an ionizing radiation measurement system designed to facilitate real-time measurement and monitoring of environmental ionizing radiation (including X-ray, gamma) dose rate, as well as the identification of radioisotopes.

Equipped with a solar panel integrated into its structure, RADIAS ensures continuous data transfer to the center even in locations without electricity. Its compact design allows for seamless integration into any desired area, while its GPS functionality provides instant location information to the center.

RADIAS, with its 1024 to 4096 channels MCA structure, can accurately identify various radioisotopes in a single measurement. Furthermore, the radiation performance tests of the system are conducted in the RADKOR laboratory, which is accredited according to ISO/IEC 17025. The system complies with IEC 60846-1 and IEC 62327 standards.

RADIAS Technical Specifications:

Detector: LaBr₃, CsI (TI), Energy Compensated Geiger Muller Tube

Radiation Type: X-ray and gamma

Measured Parameters: H*(10) measurement

Energy Range (X-ray Gamma): 30 keV- 3.0 MeV according to ISO/IEC 60846-1

Dose Rate Range: 10 nSv/h- 100 µSv/h (Spectroscopic)

Dose Rate Range: 100 µSv/h -1.0 Sv/h (Energy Compensated Geiger Muller Tube)

MCA: Capability up to 4096 channels

Radioisotope Library: According to ISO/IEC 62327

Alarm Types: Visual, audible

Operating Temperature: In the range from -30 °C to 60 °C

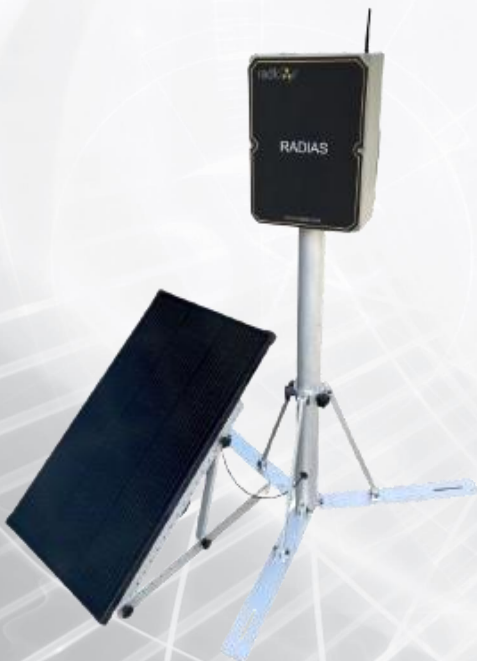
Battery: 72 hours (without solar panel; optionally can be connected to an external power source).

Dimensions: 320 mm x 165 mm x 1430 mm

Weight: 25 kg

Communication Protocol: GSM, Ethernet, Satellite (optional)

IP Standard: IP 65



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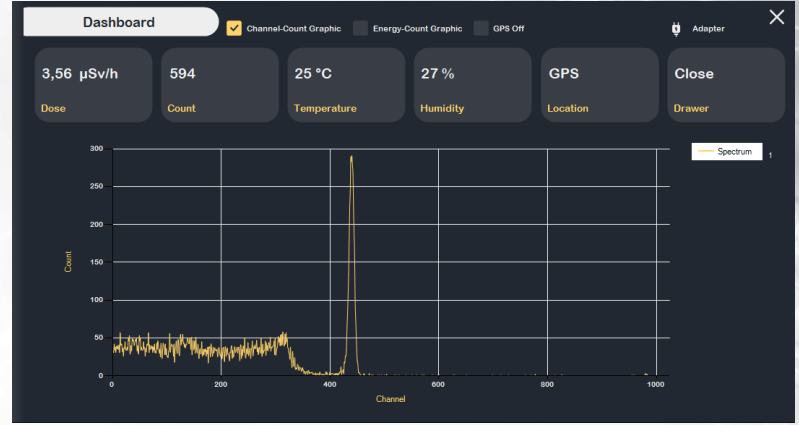




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RADIAS can perform radioisotope identification using various detectors based on user preferences.

RADIAS	
Dose Rate Measurement Range (H*(10))	10 nSv/h – 1.0 Sv/h
Radiation Type	Gamma and X-Ray (continuous) Radiation Measurement
Radioisotope Identification	Main Radioisotopes in the Radioisotope Data Library (according to ISO/IEC 62327); Cs-137; Cs-134 (Optional); I-131; Co-57; Co-60; Na-22



RADIAS Package Contents:

- RADIAS Measurement System
- Computer, Software
- Solar Panel
- Connection Apparatus
- User Manual
- Calibration certificates for the relevant product

RADIAS Proficiency Tests;

- IEC 60846-1:2009
- IEC 62327:2017
- IEC 60529
- IEC 61000

RADKOR Quality Standards;

- ISO 9001:2015
- ISO/IEC 17025: 2017 (for Irradiation and Calibration laboratories)

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