

GAMMA RADIATION SPECTROSCOPY INDOOR AREA MONITOR

GAMON-RadLite

APPLICATIONS AND SCENARIOS

GAMON-RadLite is suitable for a wide range of applications, including:

- Indoor area monitoring of laboratories, radiation controlled areas, nuclear facilities
- Area survey and control
- Prompt alarm for radiation release with dose rate calculation and spectroscopy identification

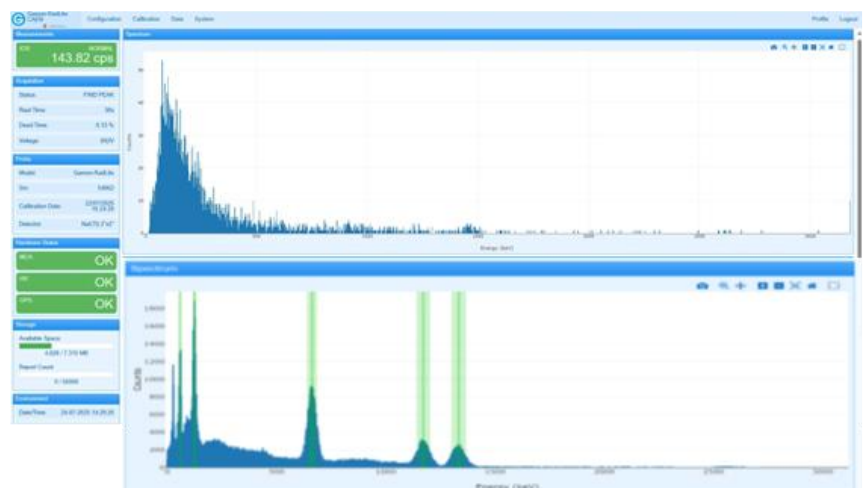
DESCRIPTION

GAMON-RadLite is a lightweight and compact gamma monitoring probe designed for reliable indoor radiation surveillance in low and mid-background environments. It provides continuous measurement of gamma radiation levels in controlled environments such as laboratories, hospitals, nuclear facilities, and industrial buildings.

The probe combines high sensitivity gamma detector with low power consumption, ensuring accurate real-time monitoring while maintaining long-term operational stability. Its slim and lightweight construction allows for flexible mounting options and minimal impact on existing infrastructure.



The web interface provides real-time display of the scintillator count rate and the ambient dose equivalent rate and supports integration with centralized monitoring systems for data logging, alarms, and remote supervision.



TECHNICAL SPECIFICATIONS

Scintillation Detector

- Available scintillation crystals:
NaI(Tl) 2" x 2"
CeBr₃ 1.5" x 1.5"
LaBr₃ 1.5" x 1.5"
- Other crystals/dimensions on request
- Energy range: 30 keV ÷ 3 MeV

Sensors

- Temperature internal sensor

Communication interfaces

- Ethernet RJ45
- USB 2.0 port
- Communication protocol TCP/IP

Options (available on request)

- Wi-Fi
- Standing support (configurable)
- Battery-powered cabinet for stand-alone use
- Transport rugged case

Software

- Integrated web interface
- Local database and data repository
- Periodic, hourly and daily report generation
- Periodic integration time: 1, 5, 10, 15, 30 min
- Spectrum stabilization with temperature and natural background isotopes
- Configurable isotope library
- Three adjustable levels of isotope-related alarms
- Storage: 1 year with 15 min reports

Power supply

- Power consumption: < 4 W
- Voltage: 5 ÷ 12 VDC

Physical dimensions and weight

- Length: 44 cm
- Diameter: 10 cm
- Weight: < 3 kg

Environmental

- Temperature range -20 ÷ 50 °C
- Humidity 0 ÷ 95 %
- Protection rating: IP65

MAIN FEATURES

The **GAMON-RadLite** is a gamma radiation spectroscopy indoor area monitor designed to monitor gamma radiation dose rate in the area and able to provide alarm and identification.

- Gamma radiation spectroscopy system based on scintillation detector
- High detection efficiency for detecting small variation in background radioactivity during acquisition
- Different crystal options available depending on the desired resolution or efficiency
- Easy integration into the CAEN Gamon Monitoring Center (GMC) Software
- Onboard web interface for easy configuration of isotope based alarms
- Internal database for summary reports and plots, easily generated by the embedded web interface
- Robust spectrum stabilization algorithms
- Big onboard data storage for long autonomous data taking
- Design for easy wall and pole mounting
- Wired and Wireless communication interfaces
- Configurable list of communication interfaces for selecting primary and backup interfaces
- Quick and easy to install and commission thanks to onboard web graphical interface

ORDERING OPTION

WSGRLELBPXAA	LABR 1,5"X1,5"
WSGRLECBPXAA	CEBR 1,5"X1,5"
WSGRLENAPXBA	NAI 2"X2"



CAEN SpA

Via Vetraria 11
55049 - Viareggio • Italy
Phone +39.0584.388.398
Fax +39.0584.388.959
info@caen.it
www.caen.it

CAENspa India Private Limited

B205, BLDG42, B Wing,
Azad Nagar Sangam CHS,
Mhada Layout, Azad Nagar, Andheri West
Mumbai, Maharashtra 400053, India
info@caen-india.in
www.caen-india.in

CAEN GmbH

Klingenstraße 108
42651 - Solingen • Germany
Phone +49.212.2544077
Fax +49.212.2544079
info@caen-de.com
www.caen-de.com

CAEN Technologies, Inc.

1 Edgewater Street - Suite 101
Staten Island, NY 10305 • USA
Phone +1.718.981.0401
Fax +1.718.556.9185
info@caentechnologies.com
www.caentechnologies.com