



SPECIFICATION NUMOBRAMS

Autonomous and deployable radiation measurement device



NuMobRAMS is a compact mobile radiation measurement device easily deployable and capable of transfering measured data to a central database. NuMobRAMS enables radiation monitoring data to sent to security centers or centralized monitoring stations from remote locations where data collection and transmission may be challenging.

NuMobRAMS comes with two versions, an extended dose rate monitor with two GM tubes or a combined dose rate & spectrometric variant with a GM tube and Nal(TI) detector.

Benefits

- Compact and autonomous device.
- Secured and continuous connection through various type of communication protocols.
- Lightweight and compact.
- Automatic transfer of measured data to centralised database.
- Operates with or without direct connection to GPS positioning
- Optional variant for spectrometric measurement
- Ruggedised and weatherresistant

Key figures

IP67

Ingress Protection

10 nSv/h - 2 Sv/h

Dose rate measurement range



Autonomy of battery operation

Supporting your energy



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Technical description

NuMobRAMS is built into a compact and ruggedised case with dimensions of 410 x 340 x 205mm, offering protection from mechanical and environmental interference. Carefully positioned onboard detectors placed away from mechanical parts in the lower part of the case deliver high-integrity data collection capabilities. The NuMobRAMS control panel allows access to signalling, display elements and access to USB connectivity for data backup. Additional signalling elements and connectors are located outside of the case and can be used to determine the device's status.

NuMobRAMS has multiple options for connectivity to a satellite modem if required, meaning that NuMobRAMS can optimise satellite communication, allowing a satellite modem to be connected from the outside of the case position away from the measuring case, or in mounting under the lid. NuMobRAMS includes a selection of ports and terminals for an external power supply or connecting other external detectors as standard.

Technical parameters

Dimensions	410 x 340 x 205 mm	
Mass	6,5 kg	
Power voltage	12 - 24 VDC ±25%	external source
	USB-C	Power Delivery adapter
	3,6 V 18 - 158 Wh	internal battery, configuration (1 - 8 cells)
Consumption	5 W	
Battery operating time	>12 hours	standard operation, 4 battery cells
Battery charging time	<7 hours	4 battery cells
Dose rate measurement range	10 nSv/h to 2 Sv/h	configuration with LND 7807 and LND 7149
Communication interface	USB 2.0	
	BlueTooth 5.1	3 Mbps
	WiFi 802.11 ac/a/b/g/n	2,4 GHz / 5 GHz
	LTE Cat 4	150 Mbps down / 50 Mbps up
	ETHERNET	10/100 Mbps, RJ45
Position sensing	GNSS	BEIDOU, GALILEO, GLONASS, GPS, QZSS
LED signaling	status record battery	Device Status Data Upload Battery Status
Display	OLED 64 x 128 px	
Keyboard	4 x 4 buttons	

Applications

- Emergency response
- CBRN
- Environmental monitoring
- Stationary measurement
- Mobile measurement

Software - NuSOFT RADIS

NuMobRAMS software performs self-diagnostic functionality. The first level (FW) ensures the device's functionality and performance, i.e. resource management, battery charging, measurement implementation, data storage, and battery status signalling. (FW) software ensures high-level data collection.

The second (SW) level offers a connection to the data collection applications, to access remote management of the device. Allowing the user access to initiate remote measurements. SW also allows users to access current measured values, and online data transfer/backup of measured results.



Supporting your energy