

stationary



The Medusa Gamma Soil Moisture Sensor (gSMS) is a stationary sensor that continuously records radionuclide concentrations in the area. The sensor can be placed in remote locations and is powered by a solar panel. The gSMS stores data locally and uploads its radionuclide concentrations to an online platform, where they can be inspected and downloaded for further processing. This real-time data can be used for environmental moisture monitoring projects, or for tracking radiation levels in security applications

Sensor key features

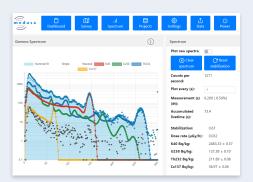
- 1.5 kg, our smallest sensor
- Ultra rugged 100 ml Csl scintillator crystal
- Optimized for ease of use
- Integrated data storage and processing
- Life-long feature updates

Typical applications

- Stationary measurements
- NORM characterization
- Soil moisture determination



Medusa Radiometrics Skagerrak 26, 9723 JR Groningen, The Netherlands



'A uniform interface for all our sensors'

Medusa Detector Operating System (mDOS)

Whether doing an airborne survey, locating a lost source with a UAV, or using our detector for a handheld survey for mapping the environment, you can count on using the same familiar interface.

mDOS is developed for in-the-field usage. Optimized for real-time monitoring, ease of use and automating your survey workflow.

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About Medusa Radiometrics

- Scientific collaboration with eminent research institutes and peer-reviewed publications of the analysis procedures
- We have over 20 years of experience in developing gamma-ray spectrometers and their applications
- We help you to develop your business by delivering state of the art gamma-ray spectrometer solutions, tailored to your needs
- We don't sell, we deliver. Our support is excellent and worldwide. You can count on us, wherever you are
- We share our knowledge and expertise through scientific publications, whitepapers, tutorials, and case studies

Designed for stationary, long term outdoor measurements

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Visit us online at medusa-radiometrics.com



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gSMS-100 Technical specifications

Recommended application: stationary

Gamma-ray spectrometer

Scintillation crystal Typical mapping speed Recording frequency Radionuclide analysis 2x2" (100 ml) Csl Up to 10 km/h Up to 5 hz ⁴⁰K, ²³⁸U, ²³²Th and ¹³⁷Cs

Electrical

Input voltage Power consumption Power source 5 - 35 V 3 W (average), 6 W (max) Solar powered (optional)

GLONASS, BeiDou, Galileo

80 (Ø) x 250(L) mm

-20 to +65 °C

2.4 and 5 Ghz

100 Mbps

RS-232

uBlox ZED-F9P

1.5 m CEP

<1 cm

1.5 kg

IP67

GPS

Type Accuracy RTK accuracy Signals

Mechanical

Dimension Weight Operating Temperature IP rating

Connectivity

Wi-Fi Ethernet Port

Data

Format Streaming Sensors Internal storage

RS-232, ethernet and Wi-Fi Spectrometer, GPS, PTH 16 GB, 700+ days of data

JSON, NMEA, CSV

Included software

Onboard-processing (by mDOS)

Real-time analysis Survey planner Real-time radionuclide inspection Sample measurements Mobile data upload (optionally)

Post-processing (by GammAn)

Support

Online support Custom support Full spectrum analysis (FSA) Window analysis (WA)

Extensive library of support guides Optional

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