

RDS BASE UNIT

NSN 6665-01-671-4539

A new level of ruggedness and reliability - the Radiological Detection System (RDS) is the world's most robust military-grade emergency detection kit available. Designed to withstand a nuclear blast and continue to display accurate radiation readings, RDS will not let you down.

The RDS consists of a Base Unit and multiple probes (Beta-Photon, Alpha-Beta, Alpha-Beta-Gamma Pancake, Sensitive Gamma, Neutron, and FIDLER) for detecting and characterizing the various types of radiation. Designed to eliminate interoperability challenges, conveniently select the appropriate radiation readings to give you the correct information to make the right call every time.

With advanced Smart Probe technology, you can confidently hot-swap probes from one Base Unit to the other without skipping a beat. With no dependency on a specific Base Unit, each probe retains its own calibration data.

The RDS Base Unit is intended for high reliability, mission-critical applications. It is durable, easy to use, and built to last.





FEATURES

- · Military-grade reliability
- Common Base Unit interface for 6 individual probes
- Hot-swapping Smart Probe technology allows any RDS probe to be used with any Base Unit
- Consistent LCD Interface for all probes
- 45 Hours of data storage
- · Ergonomic design
- · Stealth mode
- Operates on 4 AA-size batteries
- Complies with ANSI N42.17 using Cs-137 as reference source
- Survey data downloads, calibration, and firmware upgrades via Rad-Extender

SPECIFICATIONS

Radiological

Units of Count Rate - cpm, cps.

Measurement Dose/Exposure Rate - mrad/hr, µGy/hr, mrem/hr,

μSv/hr, mR/hr

Total Dose/Exposure - rad, Gy, rem, Sv, R

Detection Gamma/x-ray radiation -

 $0.1\mu Gy/hr - 100 Gy/hr$

Photon detection - 60 keV - 3 MeV Beta detection - 200 keV - 3 MeV

Neutron & Alpha detection with external probe

Data Records detection readings, date/time,

location. 45+ hours of data storage

Detectors Low dose and high dose Geiger-Mueller tubes

Dose Measure- 0.01 μSv to 10 Sv (1μrem to 1000 rem)

ment Range

Operational

Operation 8 buttons for easy menu access and navigation

Display High contrast, impact resistant LCD screen,

visible in direct sunlight

Alarms Audible and visual

Audio 3mm audio jack for headset operation

Electrical

Power 4AA batteries or AC Power Supply







Mechanical

Dimensions 8.3" x 3.45" x 2.2" (21.1 x 8.8 x 5.7 cm)

Housing Anodized cast aluminum

Weight 1.66 lb. including 4AA batteries (.75 kg)

Environmental

Operating Temp. -22° to 122.7°F (-30° to 50°C)

Storage Temp. -58° to 140°F (-50° to 60°C)

Relative Humidity 3% to 100%

Ingress Protection IP67

Salt Fog Resistant (MIL-STD 810G, Method 509.5)

Explosive Intrinsically safe Atmosphere

Immersion Water & salt water 1 meter deep - 30 min.

Standards Compliance

CE CE Compliant, EMC (2014/30/EU),

Low Voltage (2014/30/EU)

FCC FCC Part 15, Sub-part B, Class B

ANSI ANSI N42.17 ANSI N42.34

MIL-STD 461F, MIL-STD 1686C, & MIL-STD 810G

Ordering Information

V038429 Base Unit

V038863 FIDLER Probe

V040005 Alpha-Beta Probe

V038313 Sensitive Gamma Probe

V038820 ABG Pancake Probe

V038276 Beta-Photon Probe

V039097 Neutron Probe

V041227 Telescoping Probe Handle

V038669 Base Unit to Probe Cable

V062817 Rad-Extender

