

SENSITIVE GAMMA PROBE

NSN: 6665-01-671-4250
LMI Part Number: V038820

The RDS Sensitive Gamma Probe detects photon (gamma and x-ray) radiation. Its high sensitivity makes it ideal for detecting low levels of radiation. Paired with the RDS Base Unit, the Sensitive Gamma Probe is ideal for search operations to locate gamma radiation sources. The probe measures the exposure rate over a broad range of energies.

As a smart probe, the Sensitive Gamma Probe contains a microprocessor and high voltage circuitry for creating its own high voltage. No high voltage is transferred across the interface cable. When connected to the Base Unit, the display will show the probe's image and radiation measurement. The probe's onboard memory stores the probe type and calibration information.



FEATURES

- Gamma emitters detection & measurement
- NaI (TI) 1.125 x 1.5 Scintillation detector
- Sensitive to low levels of gamma radiation
- Part of the RDS radiation detecting probe family
- Calibration and firmware upgrades via the Rad-Extender
- Base Unit to probe connector cable can be used with any RDS probe
- Durable, easy to use ergonomic design
- Robust cable connections
- Smart Capability as a smart probe
- Designed and tested for military ruggedness to meet both military/defense requirements and industrial applications.

SPECIFICATIONS

Usage

Survey for gamma radiation

Radiological

Detector Type	Nal (TI) 1.125" x 1.5" Scintillator
Dose Rate Units	Count Rate - cpm, cps. Exposure Rate - μ R/hr
Detection Range	Gamma range - 50 - 5000 μ R/hr Gamma energy range - 50 keV - 1.5 MeV
Used For	Gamma and X-ray
Gamma Sensitivity	300 cpm/ μ R/hr for Cs-137, 140 cpm/ μ R/hr Co-60

Operational

Display	RDS Base Unit
Alarm	Saved in Base Unit memory

Electrical

Power	Supplied by RDS Base Unit
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Mechanical

Dimensions	12.49" x 1.95" x 1.65" (32 x 5 x 4 cm)
Probe Housing	Anodized aluminum
Weight	1.3 lb. (0.58 kg)

Environmental

Operating Temp.	-22° to 122° F (-30° to 50° C)
Storage Temp.	-58° to 140° F (-50° to 60° C)
Relative Humidity	3% - 100%
Ingress Protection	IP67
Salt Fog	Resistant (MIL-STD 810G, Method 509.5)
Explosive Atmosphere	Intrinsically safe
Immersion	Water & salt water 1 meter deep - 30 min.
Cleaning	Decontaminate with mild detergent and water

Standards Compliance

CE	CE Compliant, EMC (2014/30/EU), Low Voltage (2014/30/EU)
FCC	FCC Part 15
ANSI	ANSI N42.17 and ANSI N42.34
MIL-STD	MIL-STD 461F, MIL-STD 1686C, & MIL-STD 810G

Ordering Information

V038313	Sensitive Gamma Probe
V038863	FIDLER Probe
V040005	Alpha-Beta Probe
V038429	Base Unit
V038820	ABG Pancake Probe
V038276	Beta-Photon Probe
V039097	Neutron Probe
V041227	Telescoping Probe Handle
V038669	Base Unit to Probe Cable
V062817	Rad-Extender

