

Gamma-Scout Product Matrix

Comparative data sheet of the 4 Gamma-Scout products

SPECIFICATIONS

	STANDARD	ALERT	RECHARGEABLE	ONLINE
Halogen filled Geiger-Mueller sensor with mice end window (LND 712 or equivalent)	YES	YES	YES	YES
Sensor end window density 1.5 - 2 mg/cm ²	YES	YES	YES	YES
Stainless-steel sensor housing (0.012" wall thickness)	YES	YES	YES	YES
Sensor dimensions of length 38.1mm, measuring diameter 9.1mm	YES	YES	YES	YES
Sensor zero rate < 10 pulses per min w/ 3 mm AL and 50 mm PB screening	YES	YES	YES	YES
Operating Range: Calibrated scale 0.01 µSv/h up to 1000.00 µSv/h	YES	YES	YES	YES
Gamma-Sensitivity: 1000 cpm/mR/hr or 108 pulses referenced to Co-60 radiation of 1 µSv/h ambient	YES	YES	YES	YES
Detects alpha radiation from 4 MeV	YES	YES	YES	YES
Detects beta radiation from 0.2 MeV	YES	YES	YES	YES
Detects gamma radiation from 30 keV	YES	YES	YES	YES
Operating Temperature and Humidity: -40 to +75°C, up to 90% humidity	YES	YES	YES	YES
Dimensions and Weight: L 6.5" (165mm), W 2.8" (72mm), H 1.2" (30mm). 6 ounces (130 grms)	YES	YES	YES	YES
Impact-resistant Novadur casing	YES	YES	YES	YES
Display: Real time LCD display, 4 digit numeric with operating mode indicators. Logarithmic bar chart.	YES	YES	YES	YES
Calibration: Each unit is subjected to a final test supervised by the Institute of Radiation Protection, a government (German) controlled university for Applied Technology. The tested device must be in a confidence range of 5% in comparison to a master. This master is adjusted to a gauged reference Cs-137 emitter. Each unit gets a serialized test certificate.	YES	YES	YES	YES
Selective Shielding: Shield the sensor's mica window from alpha (to allow beta and gamma only) or from alpha and beta (to allow gamma only).	YES	YES	YES	YES
Power consumption: Power circuit consumes less than 10 microamperes at normal ambient radiation.	YES	YES	YES	YES
Can be set to display units in Sievert or Rem	YES	YES	YES	YES
Can be set to sum up dose measurements to give the cumulative dose reading from some point in time.	YES	YES	YES	YES
Batch data download: Connects to Windows PC for a batch data download of archived data measurements in memory. Memory can be wiped clean for a fresh start of data archiving.	YES	YES	YES	YES
"Always On" feature: Monitors radiation continually for a comprehensive and accurate data archive in memory that is downloadable. The unit cannot be turned off.	YES	YES	YES	YES
Ticker and programmable alert: Audible alert ticker can be turned on and clicks with each pulse generated by the GM tube in the presence of radiation. A programmable alert can be set to sound by the unit on crossing a dose rate threshold.	NO	YES	YES	YES
Embedded (soldered on) Lithium Thionyl Chloride battery, with a typical 10 year operating life at average 20°C and normal usage. There is no need to recharge this battery through its lifetime. To replace send back to factory for a replacement for a small fee.	YES	YES	NO	YES
Rechargeable battery: Can be charged via USB cable or external power supply (included)	NO	NO	YES	NO
Real time data download: Connects to Windows PC and sends the data measurements (pulses) in intervals of 2 seconds	NO	NO	NO	YES
Certifications: Meets all European CE standards as well as US FCC 15 standard	YES	YES	YES	YES
Warranty: 2 Year Manufacturer's Warranty [does not cover damage to GM tube or user carelessness]	YES	YES	YES	YES

Updated June 2011