

Gamma-Scout Data Sheet

| Feature | Feature Details | Model Compatibility |
|-------------------------------|--|---|
| Sensor Type | Halogen filled Geiger-Müller tube with mica end window [LND 712 or equivalent] | STD ALT RCH ONL |
| Sensor End Window Density | End Window Density 1.5 – 2 mg/cm ² | STD ALT RCH ONL |
| Sensor Housing | Stainless-steel housing (0.012" wall thickness) | STD ALT RCH ONL |
| Sensor Dimensions | Measuring Length 38.1mm, measuring diameter 9.1mm | STD ALT RCH ONL |
| Sensor Zero Rate | Zero Rate < 10 pulses per min w/ 3 mm AL and 50 mm PB screening | STD ALT RCH ONL |
| Operating Range | Calibrated scale 0.01 µSv/h up to 1000.00 µSv/h | STD ALT RCH ONL |
| Gamma Sensitivity | 1000 cpm/mR/hr or 108 pulses referenced to Co-60 radiation of 1 µSv/h ambient | STD ALT RCH ONL |
| Minimal Alpha Detection | Detects alpha radiation from 4 MeV | STD ALT RCH ONL |
| Minimal Beta Detection | Detects beta radiation from 0.2MeV | STD ALT RCH ONL |
| Minimal Gamma Detection | Detects gamma radiation from 30 keV | STD ALT RCH ONL |
| Memory | Internal storage for 32,000 data points | STD ALT RCH ONL |
| Operating Temp. and Humidity | -40 to +75°C, up to 90% humidity | STD ALT RCH ONL |
| Dimensions and Weight | L 6.5" (165mm), W 2.8" (72mm), H 1.2" (30mm). 6 ounces (130 grms) | STD ALT RCH ONL |
| Casing | Impact-resistant Novadur | STD ALT RCH ONL |
| Display | Real time LCD display, 4 digit numeric with operating mode indicators. Logarithmic bar chart. | STD ALT RCH ONL |
| 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. | STD ALT RCH ONL |
| 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). | STD ALT RCH ONL |
| Power Consumption | Power circuit consumes less than 10 microamperes at environmental radiation. | STD ALT RCH ONL |
| Dose Rate Units | Can be set to display units in Sievert or Rem | STD ALT RCH ONL |
| Cumulative Dose | Can be set to sum up dose measurements to give the cumulative dose reading from some point in time. | STD ALT RCH ONL |
| 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. | STD ALT RCH ONL |
| "Always On" Feature | Monitors radiation continually for a comprehensive and accurate data archive in memory that is downloadable. The unit cannot be turned off. | STD ALT RCH ONL |
| 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. | STD ALT RCH ONL |
| Embedded Battery | 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. | STD ALT RCH ONL |
| Rechargeable Battery | Can be charged via USB cable or external power supply (included) | STD ALT RCH ONL |
| Real Time Data Download | Connects to Windows PC and sends the data measurements (pulses) in intervals of 2 seconds | STD ALT RCH ONL |
| Certifications | Meets all European CE standards as well as US FCC 15 standard | STD ALT RCH ONL |

Specifications as of May 2011. Specifications can change at any time.