

GammaSentry™ GS-100 Radiation Detector:

Facility/Personnel Monitoring Radiation Detector

The GammaSentry™ GS-100 gamma radiation detector is highly sensitive and offers a fast alarm reaction time (< 2 seconds).

The detector is discrete and easy to deploy. GammaSentry™ GS-100 radiation detector is designed to integrate with any enterprise wide security management system.

The detector will detect a wide range of radioactive isotopes with gamma energy levels from 20 KeV up to 6.1 MeV. Radioactive isotopes include iodine, cesium, cobalt, decaying uranium, decaying plutonium and many others in the energy detection range.

GammaSentry™ GS-100 is ideal for personnel checkpoint, lobby entries and crowd monitoring areas.



- **Facility Security Radiation Detection**
 - **Early detection nuclear dirty bomb terrorist attacks**
 - **Protection Of Infrastructure Assets And Personnel**
- **Integrate With Virtually Any Facility Security System**
- **Indoor/Outdoor Design Features – Integrated Thermostatically Controlled Heater**

secureTEQ™

Threat Detection Technology for Homeland Security

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GammaSentry™ GS-100 Technical Specifications (typical)

General Description:

The GS-100 is a rugged, solid-state radiological detection device that incorporates a broadband silicon (Si) radiation detector diode. The detector transmits an alarm when radiation exceeds the pre-set radiation levels. The GS-100 is designed to seamlessly integrate with third party security management and detection systems.

With 20 KeV to 6.1 MeV detection range capability, the GS-100 can detect both low energy emission radioactive isotopes such as I-125, I-129 and Pd-103, some of which are used in nuclear medicine or radiation therapy, as well as high energy isotopes such as Cs-137, Co-60, Ir-192, I-131, U-235 and Ra-226. The GS-100 also detects high-energy beta emitters such as Y-90 and P-32. All of these isotopes are possible for use in a dirty bomb/RDD weapon.

Physical Specifications:

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|------------------------------|---|
| Indoor/Outdoor: | Built-in thermostatically controlled heater (GS-100-H) |
| Operating temperature range: | -46 (w/heater) to + 50 degrees C |
| Humidity: | Up to 95% RH |
| Environmental Rating: | NEMA type 3R |
| Housing: | High strength aluminum, gray powder coat |
| Tamper features: | Security screws, internal tamper switch, concealed wiring |
| Mounting: | Double gang box, 180°Pan and Tilt Swivel (manual) |
| Size (approx.): | 8 "long, 3" Diameter (20.3 cm x 7.6 cm Dia.) |
| Weight (approx.): | 1.4 Lbs. |

Electrical Specifications:

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|--------------------------|--|
| Detector: | Solid-state Silicon (Si) detector |
| Detection Range: | Gamma 20 KeV – 6.1 MeV Beta 600 KeV – 6.1 MeV |
| Sensitivity (Cesium137): | 10 mCurie @ 1 meter 100 mCurie @ 2.7 meters 1 Curie @ 7.3 Meters 10 Curie @ 23 Meters |
| Alarm Set point: | 5 mR/hr (50µSv/hr) field |
| Alarm Output: | Dry contact relay. (NO/NC) |
| Tamper Output: | Dry contact relay. (NO/NC) |
| Operating Power: | 24 VDC @ 450 mA (max) |
| Agency Compliance: | CE (Heavy Industrial), FCC Class A |

Ordering Information:

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|----------------|----------------------|
| Part# GS-100-A | Indoor Model |
| Part# GS-100-H | Indoor/Outdoor Model |