

The Safety-Guard Series I Conveyor Monitoring System offers fast and reliable detection for any illicit radioactive sources inside packages or cargo on your installed conveyor system.

Safety-Guard Series I

Conveyor Monitoring System
For Packages and Cargo



Safety-Guard Series I Protects:

- Courier Services
- Postal Service
- Food Storage/Handling
- Facilities
- Transportation Services
- Cargo Storage/Handling Facilities

The Thermo Fisher Scientific Safety-Guard Series of radiation detection systems offer optimized protection against illicit trafficking of nuclear materials. With over 3300 systems installed worldwide at borders, sea ports, couriers, government buildings and other critical infrastructures, Thermo Fisher Scientific has a dominant presence in supplying these mission critical type installations.



Our industry-leading "Natural Background Reduction" (NBR) technology offers significant gains in detection sensitivity, while lowering false alarms due to naturally radioactive materials of no consequence or concern. Large area, premium-grade scintillation detectors provide maximum detection efficiency. Optional neutron detectors are also available to enhance detection of Special Nuclear Materials (SNM).

The SGSI-600G, SGSI-600GN, and SGSI-600GN2 conveyor radiation monitors are specially configured to mount to conveyor systems conveying packages or articles in a cost-effective manner. A programmable controller monitors all detector data, generates alarms and stores data for later analysis.

Our mission, to maximize protection by delivering the very best technology, detection sensitivity and reliability, is no less important than your own - protecting our families, friends, neighbors and properties.

- Gamma and Neutron detection capability
- Multiple measuring channels
- Internal data storage
- System parameters configured via a serial connection to a PC utilizing a Windows™ based program
- Configuration program is password protected so only authorized operators may change system parameters
- Two (2) different alarms levels per measuring channel
- Communicates with detectors via RS485

Safety-Guard Series I Specifications

Controller Specification

NBR

Maximum Detectors Channels:	1 Gamma, 2 Neutron
Electronics System:	Thermo Scientific FHT 6020 electronics
Data Logging:	1300 points
Data Collection:	Every second
Packaging:	Wall-mount enclosure NEMA 12
Size:	130 x 182 x 66 mm (5" x 7" x 2.5")
Operating Temperature:	-20 ° to 50 °C (-4 ° to 122 °F)

Gamma Detector Specification

Volume:	9576 cm ³ (584 in ³)
Sensitivity:	500 cps/μR/h
Detector Plastic Size:	660 H x 279 W x 51 D cm (26" H x 11" W x 2" D)
Detector Enclosure Size:	762 H x 610 W x 208 D cm (30" H x 24" W x 8" D)
Weight:	113 kg (250 lbs.)

Options:

- Neutron Detection Capability 1 or 2 detectors; 2" x 23" He3 tubes at 2.0 atm; 141 cps/nv each
- Occupancy Sensor
- Speed Sensor
- Remote Alarm
- Detector Connection Cable

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