

DATASHEET

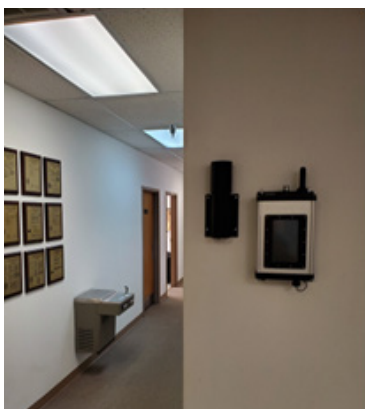
AREA MONITOR

KEY FEATURES AND BENEFITS

Spectroscopic detection for
superior nuclide identification

Centralized monitoring of multiple
detectors from a single unit

Easy-to-use, browser-based
user interface



The wall-mounted Guardian Shield remotely monitors key locations for changes in radiation levels.

The Guardian Shield area monitor uses state-of-the-art passive scanning technology to detect changes in radiation levels emitted by gamma and X-ray radiation.

The Guardian Shield area monitor is designed for remote operation, monitoring key locations in nuclear power plants, steel mills, healthcare facilities, laboratories, manufacturing facilities, educational establishments, and military installations. Trusted worldwide to detect radioactive sources, the system exceeds the strict requirements that professionals demand in today's complex operations.

The Guardian Shield's detection capabilities utilize spectroscopic technology to reliably identify nuclides present in a designated area. The resulting data can be viewed on the individual unit or multiple systems can be monitored from a single unit. System data also can be accessed from a smartphone, tablet, or computers via the browser-based user interface.

SPECIFICATIONS

GUARDIAN™ SHIELD

PHYSICAL SPECIFICATIONS

- **Operating Configuration:** Area monitor
- **Enclosure:** Aluminum
- **Number of Gamma/X-ray Detectors:** 1
- **Gamma/X-ray Detector Material:** Geiger-Müller (externally connected)
- **Gamma/X-ray Detector Size:** 0.84 in Dia. x 1.5 in L (21.4 mm Dia. x 38.1 mm L)
- **External Physical Dimensions:** 14.6 in L x 8.1 in W x 3.4 in D (37 cm L x 21 cm W x 9 cm D)
- **Weight:** 5.5 lbs (2.05 kgs)

PERFORMANCE SPECIFICATIONS

- **Gamma/X-ray Sensitivity:** 0.01 μ Sv/h – 10 mSv/h (1 μ R/h – 1 R/hr)

OPERATION

- **Inspection Mode:** Stationary
- **Radiation Alarms on Unit:** Display and tone
- **Power:** 12 DCV wall block
- **Ports:** Ethernet

ENVIRONMENT/SAFETY

- **Temperature:** -4 °F to 140 °F (-20 °C to 60 °C)
- **Humidity:** 5 to 95% non-condensing
- **Environmental Protection:** IP65

STANDARD FEATURES

- Gamma/X-ray radiation detection
- Volume: 6.2 in³ (101 cc)
- Audible and visual alarms
- Historical data retention
- Fully digital design
- Superior signal to noise ratio
- Touch screen
- Network ready with web interface
- Advanced analysis algorithms for high-sensitivity results and minimal nuisance alarms
- Real-time state of health reporting
- Remote systems diagnostics

OPTIONAL FEATURES

- Gamma Spectroscopic detector for Nuclide ID
 - 2 in Dia. x 4 in L NaI (TI)
 - Volume: 12.5 in³
 - Resolution < 7% at 661 keV
- Neutron detectors
 - LiZnS-PMMA
 - 14 in L x 6 in W x 2 in D
- Temperature/pressure sensor