Radiation Alert®
Area Monitor

The Radiation Alert® Area Monitor is one of the most user-friendly, all-inclusive, and state-of-the-art radiation area monitors available. The easy to use interface is an intelligent resistive touch screen display featuring a large five digit LED readout. It comes with either an internal or external detector and free software for monitoring every Radiation Alert® Area Monitor on your network. Includes user selectable warning indicators for low and high radiation alarm levels, low battery, and detector failure. All the settings are stored internally, even when power is disconnected. All units come with a Certificate of Conformance. NIST Source calibrations available upon request.

Detector Options

▸ Internally Mounted Energy Compensated GM Detector

▸ Externally Mounted Energy Compensated GM Detector

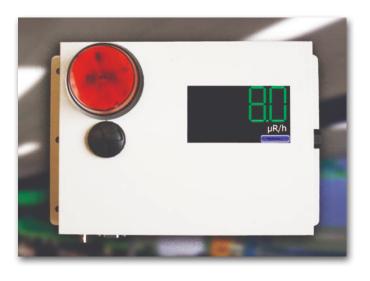▸ 1x1 or 2x2 Externally Mounted Scintillation Detector

Range Options

AM-7149: 0.2–16,000 mR/hr (2.0–160,000 µSv/hr) using an Internally Mounted LND 7149 Energy Compensated GM Detector. External mounting also available.

AM-7128: 15 µR/hr–200 mR/hr (0.2–2000 µSv/hr) using an Internally Mounted LND 7128 Energy Compensated GM Detector. External mounting also available.

AM-71313: 0.1–1500 mR/hr (0.5–15,000 µSv/hr) using an Internally Mounted LND 71313 Energy Compensated GM Detector. External mounting also available.

AM-1x1NaI: 1 µR/hr–500 mR/hr (0 µSv/hr–5 mSv/hr) using an Externally Mounted 1x1 NaI(Tl) Scintillation Probe

AM-2x2NaI: 0.1 µR/hr–75 mR/hr (0–750 µSv/hr) using an Externally Mounted 2x2 NaI(Tl) Scintillation Probe

Features

Touch Screen Display: 4.3 inch TFT 480x272 Touch Screen Display with user-friendly Programmable Units of Measurement and Audio and Visual Alarms. 5-digit LED display with 2.5 cm (1 in.) character height. 65K true colors capable of displaying full color images, animations, icons, and video clips.

Display Units: Can display in R/hr, mR/hr, KR/hr, Sv/hr, mSv/hr, Sv/hr, cpm, Kcpm, cps, Kcps, and others

Linearity: NIST Calibrated readings within 10% of true value with detector connected

Response: Varies automatically from 20 seconds to 2 seconds

Indicators: Ultra-Bright Strobe and Audible Alarm. Can trigger up to three relays with DB-9 serial connection. USB VCP for computer data logging, can also be used to control the unit with use of remote software for alarm indication and acknowledgment (silence by remote).

Ethernet: 10 Base-T connection for use with remote software for alarm indication and acknowledgment (silence by remote).

CNMC 865 Easthagan Drive, Nashville, Tennessee 37217 USA
phone 615 391 3076   800 635 2662   fax 615 885 0285   www.cnmcco.com

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Radiation Alert®
Area Monitor (continued)

Specifications

Calibration Controls ... Functions accessible through touch screen push button under calibration cover enables secure access to changing settings

High Voltage .... User adjustable from 200 to 1200 volts

Dead Time .... User adjustable to compensate for dead time of the detector and electronics

Power .... 12 V DC wall mount adapter with four sets of international adapters for almost any style wall receptacle

Battery Life .... Typically 7.5 hours in non-alarm condition; 6 hours in alarm condition

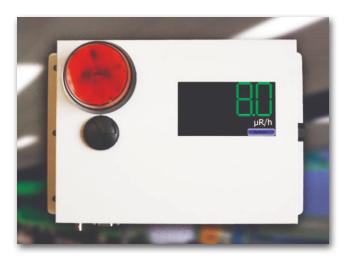Battery Charger .... NiMH Battery is continuously trickle charged when the instrument is connected to line power and turned on

Construction .... Easy-mount steel enclosure

Temperature Range ... 10 to 60° C (14 to 140° F)

Size .... 16.2 x 26.6 x 5.3 cm (6.4 x 10.5 x 2.1 in.)

Weight .... Configuration Specific

Includes

- Management software for use with networked area monitors
- Base Unit
- Power Supply
- CD with Software and Operation Manual
- Mounting Clips (External Versions Only)
- C to C Cable (External Versions Only)

Options

- External Strobe and Horn
- External Detector
- NIST Calibration

Limited Warranty

- 1 year limited warranty

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