

DRM-2N Data Radiation Monitoring System

Introduction

The DRM-2N is a GM tube-based wide range Area Monitoring system. It has been designed specifically to be used as a fixed monitor in varying dose rate fields using two very sensitive, auto switching GM tubes. The DRM's detector features a linear response from 0.1 μ Sv/h to 10Sv/h (10uR/h to 1000R/h).



The DRM-2N system consists of a wall mounted instrument DRM-2N with two Alarm Units, an External detector and a Reset Button. The DRM-2N is connected to the AC power with NiMH backup batteries. The radiation data is sent via hardwire to a Remote Monitoring System. The DRM-2N can also be connected directly to a computer input.

Applications

- Used in Naval and Industrial Installations

Features

- MIL STD 167 1A and ANSI 42.17C 1980 compatible
- Wide range response from 10uR/h to 1000R/h (0.1 μ Sv/h to 10Sv/h).
- Readout of dose rate and accumulated dose
- Ruggedized construction, metal casing
- User-selectable internal alarm threshold
- Built-in RS-232/RS-485 communication connection for use with Area Monitor
- Output plug for Local Alarm Unit.
- Calibration software available
- Compatible with RMV software for pc data downloads
- Dead time correction
- Alarms for detector overflow, low battery and detector failure
- Automatic self diagnostic routines

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Technical Data

The DRM-2N is ruggedized, wide-range GM tube-based Monitor designed to be continuously used in areas where exposure levels are required to be monitored.

The instrument is powered by an external AC source with NiMH backup batteries for backup. Two flashing LED's on the cover of the monitor show the radiation and communication statuses, while another two LED's display the power origin (AC Power or Batteries).

Measuring Range: 10 μ R/hr - 1,000 R/hr (0.1 μ Sv/hr to 10Sv/hr)

Sensitivity: 0.3 cps/mR/hr (137Cs)

Accuracy: \pm 10% of reading within measuring range

Units: mR and mR/hr or μ Sv and μ Sv/hr

Power Source: External AC Power backed up by two NiMH batteries

Operation: -10 $^{\circ}$ C to +50 $^{\circ}$ C (15 $^{\circ}$ F to 122 $^{\circ}$ F)

Storage: -20 $^{\circ}$ C to +60 $^{\circ}$ C (-5 $^{\circ}$ F to 140 $^{\circ}$ F)

Humidity Range: 40% to 95% RH (non-condensing)

Case: Blue Gray anodized aluminium



Ordering Information

BAK-3615: DRM-2N Kit (uSv/h)

BAK-3610: DRM-2N Kit (mR/h)