

DRM-2E Data Radiation Monitor

0.1 $\mu\text{Sv/h}$ to 10 Sv/h (0.01 mR/h to 1,000 R/h)

The DRM-2E is a GM tube-based wide range Area Monitor. It has been designed specifically to be used as a fixed monitor in varying dose rate fields where the detector is mounted at a distance from the Monitor. The DRM's detector features a display range from 0.1 $\mu\text{Sv/h}$ to 10 Sv/h (10 $\mu\text{R/h}$ to 1,000 R/h).

The DRM-2 is a wall mounted instrument, including alarm lights, that can be connected to the AC power with NiMH backup batteries. The radiation data is sent via 900 MHz FHSS or 2.4 GHz FHSS radios via the external antenna to a transceiver or via hardwire (RS-232 or RS-485/TCP/IP) to a Remote Monitoring System. The DRM-2E can also be connected directly to a computer input.

Applications

• Perimeter or boundary surveillance

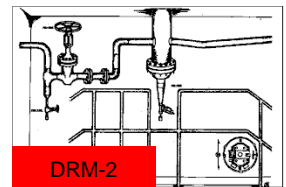
The DRM-2E is a portable or fixed position device used for perimeter and/or boundary monitoring used to quickly identify changing radiological conditions.

• Collection of radiological survey data for real-time mapping and surveillance software

The DRM-2E provides live radiological data for display, archiving and trending in real-time mapping software programs (e.g. TeleMap).



Solar Powered Outdoor
DRM



TeleMap Software

Features

- Wide range response from 0.1 $\mu\text{Sv/h}$ to 10 Sv/h (10 $\mu\text{R/h}$ to 1,000 R/h).
- Readout of dose rate and accumulated dose
- External Detector connected via 30 meter cable to DRM
- User-selectable internal alarm threshold
- Built-in RS-232/RS-485 communication connection for use with Area Monitor or WRM2 transmitter.
- Output plug for Local Alarm & Display Unit.
- Alarms for over threshold, low battery and detector overflow and failure
- Calibration software available
- Compatible with RMV software for PC data downloads
- Dead time correction
- CE compatible

Technical Description

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

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).

Detectors: GM Tubes, ZP-1301 and ZP-1201 (or equivalent)

Measuring Range: 0.1 μ Sv/hr to 10 Sv/hr (10 μ R/hr - 1000 R/hr)

Sensitivity: 0.3 - 18 cps/mR/hr (^{137}Cs)

Accuracy: $\pm 10\%$ of reading within measuring range from 0.5 μ Sv/hr

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

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

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

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

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

Case: Blue anodized aluminum

Dimensions: Meter: 93mmW x 228mmL x 56mmH (3.7" x 5.8" x 2.2")

Weight: 680g (1.5 lbs)

Radio Frequencies: 900 MHz FHSS or 2.4 GHz FHSS

Cable Length: 30 meters from Instrument to Detector

Ordering Information

BAK-1092 DRM-2E Radiation Detection Meter (mR/h)

BAK-1101 DRM-2E Radiation Detection Meter (mSv/h)

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

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