DRM-2D Data Radiation Monitor

1 μR/h up to 10 mR/h

The Data Rate Monitor (DRM-2D), a sensitive CsI(Tl) Scintillator coupled to PMT dose rate meter, is a state-of-the-art microprocessor-based instrument, combined with the telemetry using the WRM^2 900 MHz or 2.4 GHZ FHSS radio.
The DRM-2D is designed for highly stable and accurate measurements of rate from gamma radiation. The DRM Measuring range is from 0.01 μSv/h to 100 μSv/h (0.001 mR/h to 10 mR/h)
The DRM-2D is a lightweight instrument with sophisticated software offering special features and optimal performance for telemetry data. The sensitive range is obtained by CsI(Tl) scintillator (30 * 30 mm) coupled to PMT
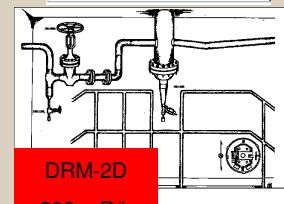
Applications

- Perimeter & Boundary Surveillance
- Collection of Survey Data for Real-time Mapping & Surveillance Software
- General Area Monitoring
- Hospital Emergency Room Entrances
- Response vehicles
- Event Monitoring

Solar Powered
Outdoor DRM

DRM-2D
200 mR/h

TeleMap Software

Features

- Wide range response from 0.01 μSv/h to 100 μSv/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 or WRM transmitter.
- 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
- RADNET and CE compatible
- Built in Alarms (Audio and Visual)
- Integrated Display

ROTEM

Technical Data

Technical Description

The DRM-2D is a highly sensitive Monitor, based on a CsI(Tl) Scintillator, (30x30mm) crystal optically coupled to PMT with 0.5 mm aluminum housing and solid Mu Metal shield, 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:	0.01 uSv/h to 100 uSv/h (0.001 mR/h to 10 mR/h)
Sensitivity:	6.8 cps/uR/hr (^{137}Cs)
Accuracy:	±10% of reading within measuring range
Units:	mR and mR/hr or µSv and µSv/hr
Power Source:	External AC Power backed up by two NiMH batteries
Temperature Range:	Operation: -10°C to +50°C (15°F to 122°F)
	Storage: -20°C to +60°C (-5°F to 140°F)
Humidity Range:	10% to 95% RH (non condensing)
Case:	Blue anodized aluminum
Dimensions:	Meter:123mm W x 110 mmL x 191mmH (4.8" x 4.3" x 7.5
Weight:	1.22 Kg (2.7 lbs)
Radio Frequencies:	900 MHz FHSS or 2.4 GHz FHSS

ROTEM Model # BAK-1095