



AREA RADIATION MONITORING

RPD-AM™

Radiological Posting Display - Area Monitor



QUALIFICATIONS

- Self-contained, dynamic display of ambient radiological conditions
- No battery change-out needed on either of the internal or external detectors
- Displays dose rate information and transmits to existing WRM2™ system receivers (enabling remote monitoring of the deployed area)
- It can also be setup to display as a radiological posting that will change automatically based on the dose rates in the area
- The RDS-31™ meter version can utilize either a GM or SD version internal, and any of various dose rate probes externally
- Audible alarm functionality can be enabled or suppressed (per configuration)
- Provided with mounting brackets to secure as needed by the plant or simply set on a horizontal surface

DESCRIPTION

The RPD-AM display monitor is a self-contained gamma dose rate detector. Its large screen clearly displays ambient dose rates for the internal detector and/or external detector (RDS-31 meter and probe). It can also pick up other WRM2 system devices if connected to your network. Whether identifying a low dose rate Waiting Area, or identifying a Radiation Area, the RPD-AM monitor lets workers know at a glance the conditions of their work area – even from across the room. The RPD-AM monitor expands even further on the concept of worker dose rate notification: with its dynamic posting display software, the monitor automatically updates itself to indicate specific (user-defined) verbiage, symbols, and messaging for given conditions – as the dose rates change. The RPD-AM monitor is designed to be rapidly deployed – the detector, display, and power hub are all pre-configured at the factory for use.



PHYSICAL CHARACTERISTICS

RDS-31 Meters:

GM:

- Dose Rate Range: 0.01 $\mu\text{Sv/h}$... 0.1 Sv/h or 1 $\mu\text{rem/h}$... 10 rem/h
- Dose Measurement Range: 0.01 μSv ... 10 Sv or 1 μrem ... 1000 rem

SD:

- Dose Rate Range: 1 $\mu\text{Sv/h}$... 10 Sv/h or 0.1 mrem/hr... 1000 rem/h
- Dose Measurement Range: 10 μSv ... 200 Sv or 1 mrem... 20,000 rem

External RDS Probes:

SD

- Dose Rate Range: 10 $\mu\text{Sv/h}$ - 10 Sv/h (0.1 mrem/hr - 1000 rem/hr)

GSD

- Dose Rate Range: 0.01 $\mu\text{Sv/h}$ – 10 Sv/h (1 $\mu\text{rem/hr}$ – 1000 rem/hr)

MECHANICAL CHARACTERISTICS

- Box Dimensions: 388 x 288 x 123 mm (15.28 x 11.34 x 4.84 in)
- View Area: 16 in (406.4 mm)
- Weight: 13 lbs (5.9 kg)

ELECTRICAL CHARACTERISTICS

- The box is made from ABS and is rated UL 94 for Flammability - It is also RoHS and REACH Compliant
- The mounting Panels are made from 0.125" Black Polycarbonate
- The included power supply will convert AC power to 5V DC so all box connection are low voltage

ENVIRONMENTAL CHARACTERISTICS

- There is no specific temperature rating for the tablet. In general the electronics should operate up to 104 °F (40°C) and up to 90% humidity and down to 32 °F (0°C)
- The modifications of the box have been designed to make it splash proof with no penetrations on the horizontal surfaces

PERFORMANCE CHARACTERISTICS

- Intel x5-Z8350 (64-bit) CPU
- 4 GB DDR3L RAM
- 32 GB Memory eMMC (5.0)
- Windows 10 Pro (64-bit)

