



Innovator In Spectroscopy Equipment

# PORTABLE RADIATION MONITOR MODEL PRM 2415A



## Free portable Software



Not Included



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## PORTABLE RADIATION MONITOR MODEL PRM 2415A

### Features:

- Detects all Gamma & X-Ray radiation: Check radiation levels during air travel or during medical procedures (X-Rays, CT scans, etc)
- Simple and compact design
- Cost effective
- Semiconductor Sensor
- Very low dark current signals
- Very low capacitance levels
- Gamma radiation energy (120keV-3MeV) STD version
- Gamma radiation energy (60keV-3MeV) Pro version
- Detect the presence of a source of radiation
- Monitor radioactivity in the environment over long periods of time
- Monitor counts/interval (rate)
- Measurement Range:(0.05uSv/h~10mSv/h (Cs 137))
- Measurement Count:(0.01cpm~300Kcpm)



### Description:

The PRM2415A from CFP is a highly sensitive radiation sensor designed for the embedded systems market. Capable of detecting Gamma and Beta radiation, it has a simple pulsed output that can be used with any interface. The PRM2415A has an onboard DC boost circuit, so the board can be supplied with a friendly 5V. Using only 31mW (6mA @ 5V), it is very low power. CFP has a handful of documents and example sample to get you up and running. They have also written a Windows and Android example program written in C# to output graphs to a computer using a USB as the reader.

Additionally, the counter comes with an optional enclosure and 3.5mm cable that allow you to connect the counter to some mobile phones.

### Further Tips for Monitoring Radiation:

To measure gamma and X-rays, hold the tip of the Radiation Monitor toward the source of radiation. Low-energy gamma radiation (10–40 KeV) cannot penetrate the side of the PRM, but may be detected through the window.

To detect hard beta radiation, point the window toward the source of radiation. Beta radiation has a longer range through air, but can usually be shielded (e.g. , by a few millimeters of aluminum). High energy beta particles may be monitored through the back of the case.

Some isotopes detected relatively well are cesium-137, cobalt-60, technetium - 99m, phosphorus-32, and strontium-90. Some types of radiation are very difficult or impossible for this PRM to detect. Beta emissions from tritium are too weak to detect using the Radiation Monitor. Gamma emissions from Americium-241 are too weak to detect using the Radiation Monitor.



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### Application:

- Detects all Gamma & X-Ray radiation: Check radiation levels during air travel or during medical procedures (X-Rays, CT scans, etc)
- Counts/Interval vs. Distance Studies
- Counts/Interval vs. Shielding Studies
- Half-Life Determination (Counts/Interval vs. Time)
- Histogram Data Analysis
- Lantern Mantles
- Background Radiation

### Software:

- This sensor can be used with one of the above interfaces and the following data-collection software.
- CFP Logger Computer 4hour with internal battery
- PC Computer
- Tablet with USB host

### Standard Kit:

- Analyst utility software
- User guide DVD
- Delivered in box with foam inserted
- RRM 2415A with cable



Free portable Software



www.cfp.co.ir



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