

Environmental Radiation Monitor

Standalone Radiation Monitoring Device

Economical than cost of cable laying



- ➔ Six decade wide Sensing Range
- ➔ Extra Long Battery Life
- ➔ Wireless Data Transfer & Control
- ➔ Real-time Alarm Notification
- ➔ Easy SCADA Integration
- ➔ Dual Redundant Detectors, HV

SENERGY INTELLUTION PVT. LTD.

Environmental Radiation Monitor

Environmental Radiation Monitoring is required around Nuclear facilities, to get an early warning of any accidental release of dangerous activity in the surrounding.

Problems Faced

Monitoring in the plant surrounding is generally in open, un-manned areas, having no access to wired communication or power supply. Laying & maintaining cables here is expensive.

Effective Solution

Environmental Radiation Monitor is suitable for such challenging situation, with its long life internal battery operation and wireless data communication.

Our Ultra-High Efficiency HV module, coupled with extremely low power consuming electronics, provides years of operation using low-capacity, lightweight, small-size conventional dry battery.

Features

- ✓ Field proven, more than 3 years of Flawless Operating Experience.
- ✓ Continuous Monitoring & Recording of Gamma Radiation Dose Rate.
- ✓ Incorporates a sensitive GM-Tube, providing sensitivity from 10nGy/Hr dose rate.
- ✓ Extremely Low Power Consumption (~ microAmps@3V), allows **maintenance-free** non-stop operation for years.
- ✓ Designed to endure the **harshest environments**.
- ✓ The radiation level is logged in its internal memory for over two years.
- ✓ LONG LIFE battery lasts over TWO years, with the unit continuously ON in normal background condition.
- ✓ Logs alarm messages on detection and initiates data transmission.
- ✓ Periodic data transmission to central station
- ✓ The logged data can be sent over GSM network using GPRS or SMS to remote data collector.
- ✓ Zigbee, free band wireless allows data transmission upto 30Kms.
- ✓ Software to wirelessly control settings, capture, store & display data from multiple devices.

Technical Specifications

- ✓ Alerts on set radiation level (remote controlled)
- ✓ Radiation detection Accuracy: $\pm 10\%$
- ✓ Scan time: 2 to 480 minutes
- ✓ Dual redundant detectors, dual HV electronics, provide high availability
- ✓ Huge Memory capacity: up to 130000 Logs (6 months to few years)
- ✓ Compact Size: 630mm x Dia.100mm
- ✓ Ingress Protection: IP66, open-sky deployment
- ✓ Wide Detection Range: 10nGy/Hr to 10mGy/Hr
- ✓ Power supply: Internal Battery
- ✓ Internal temperature sensor
- ✓ Extra long Battery life: Two years, extendable to 5 years
- ✓ Enclosure: Metallic cylinder with Radome for wireless communication.
- ✓ Operating Temperature: 0-60 Deg. C
- ✓ Humidity: 0-95% RH (Non-condensing)

About Us

With 15+ years of experience, Senergy manufactures reliable and customized electronic products used in Nuclear power plants, nuclear labs, defence establishment and industries.

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