

Neutron Rem Monitor

TYPE: NSM741



FEATURES :

- Microcontroller based design.
- Compact, Elegant and light weight.
- Detector : ^3He proportional detector surrounded by 9" dia Polyethylene sphere, as moderator.
- Measures Neutron Flux in CPS / CPM.
- Measures dose rate in Sv/h in the range of (0.1 $\mu\text{Sv/h}$ to 10mSv/h).
- Accuracy +/-10%.
- Facilitates data storage.

Neutron Rem Monitor Type : NSM 741 is a portable micro-controller based battery operated instrument designed primarily for measurement of leakage neutron radiation normally encountered in Medical Cyclotron Facilities, Nuclear Power Plants and other industries where neutron source is used for certain industrial applications, Neutron Rem monitor finds industrial applications such as, in cement, mineral and coal industries where cross belt on-line analysers, based on Neutron activation Analysis are used. Neutron Rem Monitor serves as a radiation protection instrument, to measure leakage radiations from the cross belt analyzers. **Neutron Rem Monitor** can be used for measurement in three modes CPS, CPM & Dose rate (mR/h, $\mu\text{Sv/h}$). The unit can measure in the range of (0.1 $\mu\text{Sv/h}$ to 10mSv/h) in dose rate mode.

SPECIFICATIONS

Radiation Detected	:	Neutron Radiation.
Detector	:	^3He proportional detector surrounded by 9" dia Polyethylene sphere, as moderator.
Measurement Range(s)	:	a) Countrate CPS, CPM (0-999999) b) Doserate (0.1 $\mu\text{Sv/h}$ to 10mSv/hr)
Neutron Dose Rate	:	(0.1 $\mu\text{Sv/h}$ to 10mSv/h).