

SCINTILLATION PROBES - NEUTRONS

Models - PNS-19; PNS-20



PNS-19 & PNS-20

DESCRIPTION:

SCINTILLATION PROBES (NEUTRONS):

- PNS-19:** **Fast Neutron Scintillation Probe** insensitive to gamma radiation in fields below 100 R/hr. The n-p reaction is used to measure energy deposited by neutrons. A shaped light pipe and moderator about the ZnS.Ag phosphor gives a consistent Rem to count ratio for incident neutrons 1/4 MeV and above, within $\pm 30\%$.
- PNS-20:** **Slow Neutron Scintillation Probe.** Thermal neutrons are detected by means of the boron n-alpha reaction. Probe delivers approximately 60 cpm per neutron/cm²/second and requires a 900 volt supply. The probe is 8" long x 2" in diameter. It is completely insensitive to gammas in fields below 10R/hr.
To measure fast neutrons, use the **PNS-19** probe.



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