SCINTILLATION PROBES - NEUTRONS

PNS Series

Models - PNS-19; PNS-20;
PNS-20-HL; PNS-1947

PNS-1947

PNS-19 and PNS-20

DESCRIPTION:

SCINTILLATION PROBES (NEUTRONS):

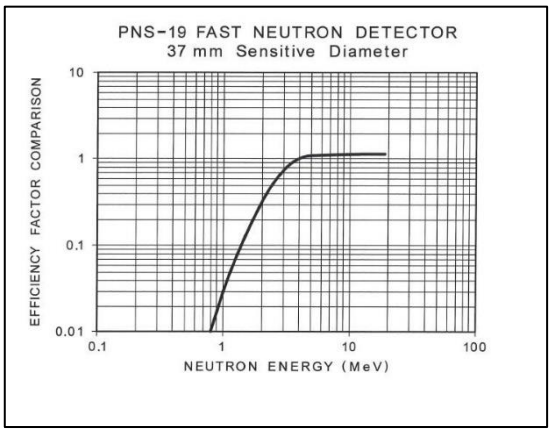
PNS-19: **Fast Neutron Scintillation Probe** insensitive to Gamma radiation in fields below 100 R/hr. The n-p reaction is used to measure energy deposited by Neutrons. A shaped light pipe and moderator about the ZnS.Ag phosphor gives a consistent Rem to count ratio for incident Neutrons energy range 15 MeV and above, within ± 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/cm^2/second and requires a 900-volt supply. The probe is 8" long x 2" in diameter. It is completely insensitive to Gammas in energy range fields below 10R/hr.

PNS-20-HL **Both Slow (Thermal) and Fast Neutron Scintillation Probe**. Thermal Neutrons are detected by means of the boron n-alpha reaction. Probe delivers high efficiency with 2" diameter x 2" width x 44" long plastic scintillation bar and photomultiplier (PM) tube. Requires a 900-volt supply. It is completely insensitive to Gammas in energy range fields below 10R/hr.

To measure fast Neutrons, use the **PNS-19 or PNS-1947** probes.

PNS-1947: **Fast Neutron Scintillation Large Area 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 energy range 15 MeV and above, within ± 30%. Sensitive diameter 125 mm



TECHNICAL ASSOCIATES
7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
PHONE: 818-883-7043 | FAX: 818-883-6103
SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM
DIVISION OF US NUCLEAR CORP OTCQB-UCLE
CBRN Real - Time Air & Water Specialists