

PORTABLE NEUTRON SURVEY METER

Model ~ NSN3

FEATURES:

- NEUTRON DETECTION
- AMBIENT DOSE EQUIVELANT
- AMBIENT DOSE EQUIVELANT RATE
- NO ZERO DRIFT
- TRUE REM RESPONSE
- 6 DECADE RANGE
- HANDLE BASED DISPLAY
- PORTABLE
- LIGHTWEIGHT 4.4 lbs (2 kg)
- BATTERY OPERATED WITH AC ADAPTER
- USB PORT



FUJI NSN3

APPLICATION:

Neutron dose rate monitoring in & about:

- Nuclear Reactors
- Neutron Sources
- Neutron Generators
- Customs Inspections, Etc.

DESCRIPTION:

The NSN3 utilizes an ultra-stable high voltage bias supply for the Proportional Neutron Detector.

- Amplified Counts
- Discriminated Counts to Remove Gamma Components
- Counts Shaped to Present Neutron REM Rate Information
- Display Reads Out Directly in mSv/h & μ Sv/h from Thermal to 15 MeV.
- Smooth Finish
- Easy Decontamination
- Easy to Read Digital Display



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

Divisions of  US NUCLEAR CORP

PORTABLE NEUTRON SURVEY METER

Model ~ NSN3

SPECIFICATIONS

Radiation detected:	Neutron
Measurement quantity:	1cm dose equivalent
Detector:	Gas detector
Sensitivity:	$0.3 \text{ s}^{-1} / \mu\text{Sv/h} \pm 20 \%$, ref. ^{252}Cf
Measurement Range:	dose rate : 0.1 $\mu\text{Sv/h}$ to 99.99 mSv/h dose : 0.01 μSv to 99.99 mSv
Accuracy:	dose rate : $\leq \pm 15 \%$ at 10 $\mu\text{Sv/h}$ dose : $\leq \pm 25 \%$ at 0.05 μSv
Energy Range:	0.025eV to 15 MeV
Energy Dependency:	ICRP74 compliance
Angular Dependence:	$\leq \pm 25 \%$ ($\pm 90^\circ$ from threshold)
Dose Rate Characteristic:	$\leq \pm(20 + U)\%$ (U : Uncertainty of reference source) Gamma ray sensitivity No response until 1 mSv/h
Battery Life:	Displays continuously 31 hours or more Displays intermittently 17 hours or more (displays 1min, during 5min.)
Response Time:	Less than 4sec: over 1mSv/h
Display:	Organic EL triple-digit display (Dose rate, Integrating dose)
Power Supply:	3-way / Primary battery or secondary battery (AA type, 6 cells) AC adaptor(IN: 100 to 240V AC) (option)
Operating Temperature:	-10 to +45 °C / +14 to +113°F
Operating Humidity:	35 to 90 % (non-condensing)
Size:	164 mm Dia x 289.5 mm Long / 6.46" Dia x 11.4" Long.
Mass:	2 kg / 4.4 lb approx. (including batteries)
Interface:	USB
Compliance Code:	IEC61005(2003), JIS Z4341(2006)



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

Divisions of



US NUCLEAR CORP

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM