

POCKET DOSEMETER

GAMMA, X-RAY, NEUTRON

Model ~ NRF31

FEATURES:

- PORTABLE
- GAMMA, X-RAY, NEUTRON DETECTION
- USER SETTABLE ALARM
- AUDIBLE ALARM
- LONG BATTERY LIFE
- WATERPROOF
- IMPACT RESISTANT
- ELECTROMAGNETIC INTERFERENCE RESISTANCE



FUJI NRF31

APPLICATION:

Gamma, X-Ray & Neutron dose monitoring restricted areas of Nuclear Power Stations & other Nuclear Facilities:



FUJI NRF31
DISPLAY

DESCRIPTION:

Protect personnel with the NR31 Pocket Dosemeter.

Dose, Dose Rate, and Operating Time alarm values can be Preset.

OPTIONAL: The Setting Device communicates the data with EPD using IR. The Setting Device reads the setting value/accumulated dose and writes the setting value into EPD.



TECHNICAL ASSOCIATES
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Divisions of  US NUCLEAR CORP

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SPECIFICATIONS

Radiation detected:	Gamma, X-Ray, Neutron
Detector:	Silicon Semiconductor
Dose Equivalent Measurement Ranges: (Sv)	:1 μ Sv to 999 μ Sv :1.000 mSv to 999.9 mSv - 1.000 Sv to 999.9 Sv
	(rem) :0.1 mrem to 999.9 mrem - 1.000 mrem to 999.9 mrem
Accuracy:	Gamma: ± 10 % (0.1 mSv to 9.9999 Sv, ^{137}Cs) Neutron: ± 15 % (0.5 mSv to 9.9999 Sv, ^{252}Cf)
Energy Range:	Gamma: 50 KeV to 6 MeV Neutron: 0.025eV to 15 MeV
Energy Response:	Gamma: ± 20 % (50 KeV to 6 MeV, ^{137}Cs) Neutron: ± 50 % (250 KeV to 4.5 MeV, ^{252}Cf)
Angular Response:	Gamma ± 20 % (Up to $\pm 60^\circ$ vertical & horizontal, ^{137}Cs) ± 50 % (Up to $\pm 60^\circ$ vertical & horizontal, ^{241}Am) ± 30 % (All around horizontal, ^{137}Cs Free Air) Neutron: ± 30 % (Up to ± 75 degree, vertical & horizontal, $^{241}\text{Am-BE}$)
Linearity for Wide Range Dose Rate:	Gamma: ± 10 % (0.1 mSv/h to 9.9999 Sv/h, ^{137}Cs) Neutron: ± 20 % (0.5 Sv to 9.9999 Sv/h, ^{252}Cf)
Battery Life:	1 Year or More (8 hour per day, without Alarm & Backlight) OR 4 months Continuous Use
Alarm Volume:	85 dB to 100 dB – User Settable
Response Time:	Less than 4sec: over 1mSv/h
Display:	LCD with Backlight
Power Supply:	Cr123A Lithium Battery AC adaptor(IN: 100 to 240V AC) (option)
Operating Temperature:	-20 to +50 $^\circ\text{C}$ / -4 to +122 $^\circ\text{F}$
Operating Humidity:	35 to 95 % (non-condensing)
Interface:	Infrared Communication
Dimensions:	60 mm W x 78 mm H x 27 mm Dia. / 2.4in W x 3 in H x 1 in Dia.
Weight:	103 g /3.6 oz approx..



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