

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
Total Dose:	0.1 mSv to 9.9999 Sv, ¹³⁷ Cs -10.000 mrem to 999.9 mrem
Accuracy:	Gamma: ±10 % 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 ±60°vertical & horizontal, ¹³⁷ Cs) ±50 % (Up to ±60°vertical & horizontal, ²⁴¹ Am) ±30 % (All around horizontal, ¹³⁷ Cs Free Air) Neutron: ±30 % (Up to ±75 degree, vertical & horizontal, ²⁴¹ 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 °C / -4 to +122°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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