

POCKET DOSEMETER

Gamma, X-Ray, Beta

Model ~ NRF-34

FEATURES:

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



FUJI NRF-34

APPLICATION:

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



FUJI NRF-34
DISPLAY

DESCRIPTION:

Protect personnel with the NRF-34 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
OVERHOFF TECHNOLOGY

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SPECIFICATIONS

Radiation detected:	Gamma, X-Ray, Beta
Detector:	Silicon Semiconductor
Dose Equivalent Measurement Ranges: (Sv)	:0 μ Sv to 999 μ Sv :1.000 mSv to 999.9 mSv - 1.000 Sv to 9.999 Sv
(rem)	:0.0 mrem to 999.9 mrem - 1.000 mrem to 999.9 mrem
Accuracy:	Gamma – X-Ray: $\pm 10\%$ (0.1 mSv to 9.9999 Sv, ^{137}Cs) Beta: $\pm 15\%$ (0.1 mSv to 9.9999 Sv, ^{137}Cs)
Energy Range:	Gamma – X-Ray 50 KeV to 6 MeV Beta: 300 KeV to 2.3 MeV
Energy Response:	Gamma – X-Ray $\pm 20\%$ (50 KeV to 6 MeV, ^{137}Cs) Beta $\pm 30\%$ (500 KeV to 2.2 MeV, $^{90}\text{Sr}/^{90}\text{Y}$)
Angular Response:	Gamma – X-Ray $\pm 20\%$ (Up to $\pm 60^\circ$ vertical & horizontal, ^{137}Cs) $\pm 50\%$ (Up to $\pm 60^\circ$ vertical & horizontal, ^{241}Am) $\pm 30\%$ (All around horizontal, ^{137}Cs Free Air) Beta: $\pm 60\%$ (Up to $\pm 60^\circ$ vertical & horizontal, $^{90}\text{Sr}/^{90}\text{Y}$)
Linearity for Wide Range Dose Rate:	Gamma – X-Ray $\pm 10\%$ (0.1 mSv/h to 9.9999 Sv/h, ^{137}Cs) Beta: $\pm 10\%$ (0.1 mSv/h to 9.9999 Sv/h $^{90}\text{Sr}/^{90}\text{Y}$)
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:	105 g /3.7 oz approx..



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