RAD-51 Programmable Personal Dosimeter

Specifications

Radiation detected:	gamma and x-rays
Detector type:	energy compensated Si-Diode
Measurement range:	dose: 0.000 - 999.999 mSv or 0.000 - 999.999 rem dose rate: 0.005 - 3000 mSv/h or 0.001 - 300 rem/h
Calibration:	better than ± 5 % (Cs-137, 662 keV at 2,0 mSv/h), Hp(10)
Energy response:	Hp(10), 60 keV - 3 MeV, better than ± 25 % or 60 keV up to - 6 MeV, better than ± 35 %
Dose rate linearity:	better than ± 10 % up to 1 Sv/h or 100 rem/h and better than ± 20 % up to 3 Sv/h or 300 rem/h
Audible alarms:	nine separate alarms, sound level typically 80 dBA at 30 cm - integrated dose - dose rate - dose and dose rate overflows - low battery 1 and 2 - elapsed time - defect - count down alarm
Alarm thresholds:	five freely selectable values for integrated dose for sequential alarm (in steps of 0.001 mSv or rem); one freely presettable value for dose rate (in steps of 0.001 mSv/h or rem/h) all values set through reading system
Power supply:	one triple-A size alkaline cell, life typically 1500 h in background field (dose mode)
Reader communication:	by infrared through bottom part; compatible with RADOS 85-series reading systems
Push button functions:	secondary measuring units and active alarm levels display via push button operation
Environmental conditions:	-10 - +50 °C up to 90% RH, non-condensed, operational - 20 - +70 °C, storage
Dimensions:	78 x 67 x 22 mm
Weight:	90 g including battery