



SOR/RF

Enhanced Ambient/LLR Electronic Dosimeter

An important special feature of the SOR Line is its ability to meet the needs of various applications with one product. Given its multi-detector architecture the measurement range covered is broad, and includes high level gamma dose rates as well as low level radiations (L.L.R).

These dosimeters are qualified in accordance with current military and civil standards. The SOR line has even exceeded some of the standards currently in effect in order to account for harsh operational environments.

The SOR dosimeter has been selected by most NATO countries.

FEATURES...

The SOR/RF Electronic Dosimeter represents a substantially increased EMI resistance over the SOR-R and SOR-T product lines. It has been enhanced to exceed the EMI interference requirements of MIL STD-461/810.

- assignable electronic dosimeters
- · waterproof, light and small
- rugged for battlefield use
- hands free communication, pass-by exchange
- data communication through clothing layers
- enhanced EMI resistance over 250V/m



Featuring:





TECHNICAL SPECIFICAT	IONS:	
Radiological Characteristics		SOR-R/T
	 Hp(10) dose equivalent measurements flash gamma dose measurement**: 5 cGy to 10 Gy relative error of flash measurement**: +/- 30 % over measurement range ambient gamma dose measurement range: 1μGy to gamma dose rate measurement range: from backg gamma dose rate display: from 1 or 10 μGy/h to 10 saturation indication (above 10 Gy/h) relative error of ambient measurement: +/- 20 % over the dose measurement range energy response: +/- 20 % in the range 60 keV to 2 MeV +/- 50 % in the range 2 MeV to 6 MeV 	o 10 Gy round to 10 Gy/h
Functional Characteristics		
Mechanical Characteristics	 redundant architecture with passive measurement of selectable units: cGy; cGy/h; mSv; mSv/h: mrem; ndd 4 configurable dose and dose rate alarm levels typical one year lifetime with standard battery user selectable display modes backlighted display (option) periodic exhaustive self-testing including the detect historical record of measurements and events (750 data storage in EEPROM (qualified > 10 years without battery fault pre-alarm (16 h) and alarm neck lanyard or clip training mode (option) dimensions: 80,4 x 48 x 9 mm (flat housing) (3.16 x weight: 55 g (1.94 oz) 	nrem/h tor steps; 10 s; 1 min, 10 min; 1 h; 24 h) out battery)
Environmental Characteristics		
	 -20° to + 50°C (-4°F + 122°F) (normal operating ran -40° to + 50°C (-40°F + 122°F) (option with battery) resistant to EMP, EMC, radars resistant to water immersion, drops, shocks, vibration environmental conditions meets/exceeds the following standards: MIL-STD-810 and MIL-STD-461 requirements IEC 1283, ANSI 42-20 and NATO D104 qualified by most of the NATO military laboratories 	module 3.6V LiSoCl2) ions, low pressure, initial conditions, NBC



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