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Thomson & Nielsen Electronics is internationally recognized for its application of semiconductor technology to new methods of radiation detection. The company's personal dosimetry and alarm system is among the most advanced on the market.

Personal dosimetry system

Thomson & Nielsen designed its versatile dosimetry system to record both the instantaneous and residual gamma radiation received by an individual in combat or nuclear emergency situations. An electronic dosimeter device in the system that permanently stores the total dose the individual received operates independently of orientation and can be read directly. Available in a choice of two models, the Pocket Dosimeter/Reader and the Badge, this device meets or exceeds the radiological requirements of NATO.

The Pocket Dosimeter/Reader functions as a dosimeter and displays total dose readings at all times. It has optional alarm settings to alert the wearer to dangerous radiation levels.

The Badge measures the gamma radiation dose and optionally the neutron dose level without providing a readout. To determine the wearer's exposure, the Badge is inserted into the side of the Reader of the Pocket Dosimeter/Reader which then temporarily displays the Badge reading. Both Badge and Reader may be rezeroed if desired.

Thomson & Nielsen produces its personal dosimetry system in a choice of colours and a variety of models, including neck badge, wrist badge and systems with simulated readings and alarms for field exercises.



The Reader reads its own dose level or that of the Badge.

Specifications		
	Badge	Pocket Dosimeter
Weight (g)	50	200 (with 9 V battery)
Size (cm)	6.5 x 5 x 1.5	11 x 6.5 x 3
Total dose range	1 to 2000 rems (1 to 200 rems shown)	
Calibration accuracy	± 10%	
Rate independence	10E10 R/s	
Energy response	± 20% from 80 keV to 3 MeV	
Neutron response	independence to 20 MeV	



The Badge dosimeter measures gamma and, optionally, neutron doses.