



Features of the nukeALERT II:

- Highly sensitive, reliable, and easy to use
- Dual mode: exposure rate data or 1-9 strength indicator
- Rugged and watertight, outfitted with belt clip
- Stores event data in internal non-volatile memory
- Allows data transmission to a PC for processing and analysis

Applications:

U.S. customs, border patrol, security, military, HAZMAT, counter-terrorism, fire departments, medical response, police



nukeALERT II Model 1703GN

The nukeALERT II 1703GN is the latest generation in radiation detection for non-technical personnel. In the event of a radiological emergency, first response team members equipped with a nukeALERT II can immediately survey a large area for any radiological presence because of a dramatic improvement in detector sensitivity and response time. The instrument discreetly detects radiation and alerts the operator through a vibration or audible alarm. Ease of use, sensitivity and durability under harsh environmental conditions make nukeALERT II essential for those who work in emergency services, hazardous materials, counter-terrorism, border patrol, law enforcement, military, or medical and industrial applications.

The 1703GN is able to detect the smallest amounts of radioactive materials using both gamma and neutron detection technologies. Equipped with two independent scintillation detectors of CsI(Tl) and LiI(Eu) the unit rapidly alerts the user of any gamma or neutron radiation above normal levels by giving discreet audible or vibrating alarms. The advanced neutron detector electronics are sensitive enough to detect shielded gamma sources that might be undetectable by the average radiation pager. The instrument employs an algorithm which enables the user to adjust the settings to minimize false alarms in high background level environments without compromising the probability of detecting a source.

This model has a belt clip and bright visual display which promotes hands-free operation. The shock resistant housing provides a watertight, robust monitoring tool for the most demanding emergency response applications. Tests have shown the nukeALERT II is more sensitive and responsive than commonly used first responder meters. Data—including the alarm event and time, and level of alarm exceedance relative to the preset threshold—for up to 1000 incident histories may be stored in the non-volatile memory of this instrument. All of this data may be transmitted to a PC through the IR channel for processing, analysis and control.

SPECIFICATIONS:

Detector:	CsI (Tl) Scintillator LiI (Eu) Scintillator
gamma	
neutron	
Energy range of neutron radiation	From thermal to 14.0 MeV
Dose rate range	1-7000 μ R/hr (0.01 – 70 μ Sv/hr)
Threshold setting range for photon radiation	Threshold is set by sigma (coefficient n)
Environmental tolerances:	
temperature range	-30°C to +50°C
relative humidity at 95°F (35°C)	up to 98%
Drop test (concrete surface)	0.7 m
Protection class	IP65
Battery lifetime, based on 24/7 usage	1000 hours
Power requirements	1 AA battery
Weight (including the battery)	200 g
Dimensions	87 x 72 x 45 mm