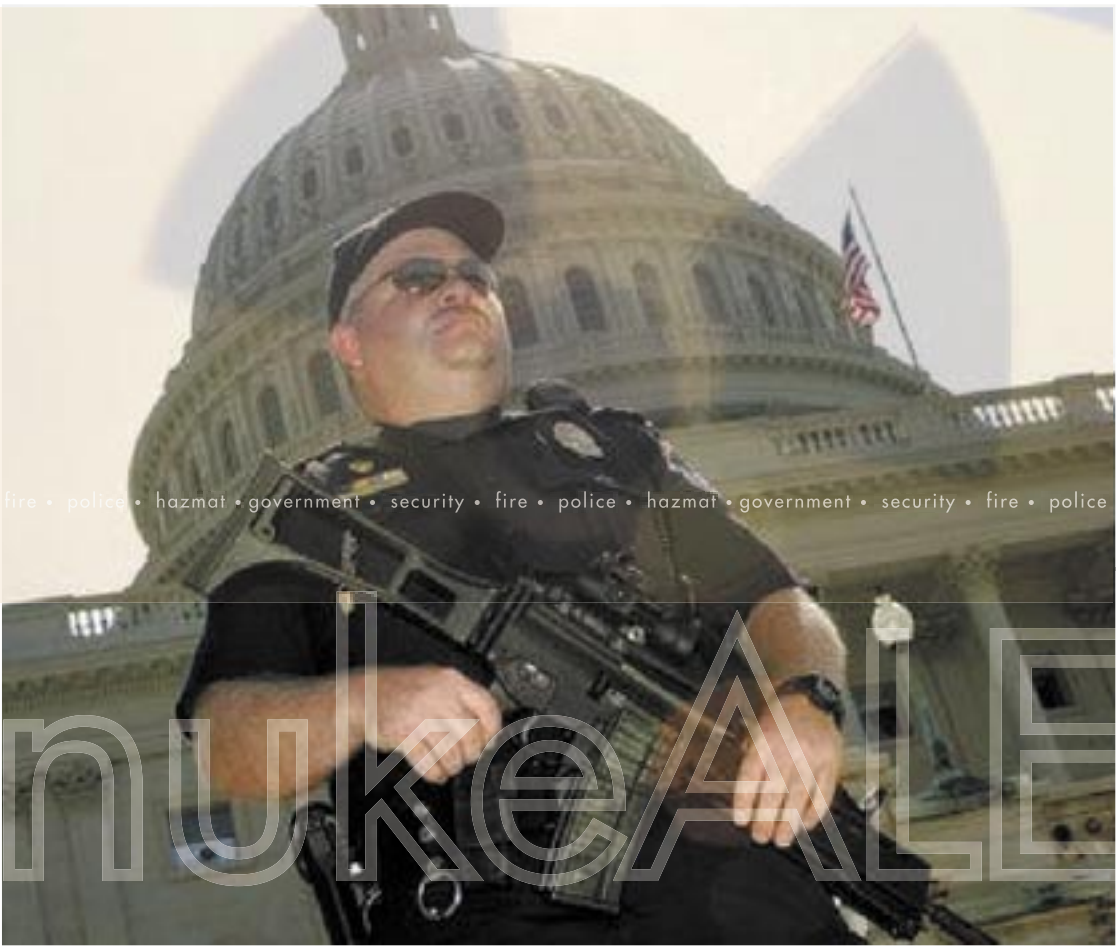
Gamma Pager Model PM1703M



Features of the PM1703M:

- 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

Model 1703M

Gamma Pager

The 1703M 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 the unit 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 the unit essential for those who work in emergency services, hazardous materials, counter-terrorism, border patrol, law enforcement, military, or medical and industrial applications.

The 1703M offers two critical operation modes: the first mode incorporates a 1-9 strength indicator scale for simple analysis of sources present and the second mode provides exposure rate readings and accumulated dose information commonly found in dosimeters. 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 unit 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
Energy range of gamma radiation	0.033 – 3.0 MeV
Sensitivity for gamma radiation (662 keV of Cs137), typical	1cps/(μR/hr) [100cps /(μSv/hr)]
Dose rate range	1-7000 μR/hr (0.01-70 μSv/hr)
Threshold setting range for photon radiation	15-360 μR/hr (0.15-3.60 μSv/hr)
Environmental tolerances:	
temperature range	-22°F to 122°F (-30°C to +50°C)
relative humidity at 95°F (35°C)	up to 95 %
Drop test (concrete surface)	0.7 m
Protection class	IP65
Battery lifetime, based on 24/7 usage	no less than 800 hours
Power requirements	1 AA battery
Weight (including the battery)	180 g
Dimensions	27.7 x 70 x 72 mm

2955 KERNER BLVD. SAN RAFAEL, CA 94901 • TEL 415.453.9955 • FAX 415.453.9956
INFO@BERKELEYNUCLEONICS.COM • WWW.BERKELEYNUCLEONICS.COM