



Innovating Radiation Detection Technologies Since 1992

PORTABLE RADIATION DETECTOR

PM1621M PM1621MA

**PM1621M Portable Radiation Detector
with dosage accumulation capability
For First Responders, Law Enforcement, Security**

**LOW COST - HIGH EFFICIENCY
unique features, high sensitivity, durability,
reliability**

PM1621M is designed to provide continuous measurement of:

- personal dose equivalent rate of external gamma and X-ray radiation
- personal dose equivalent of external gamma and X-ray radiation
- time of dose accumulation

PM1621M is also designed to search for radiation sources as regular Portable Radiation Detector with short response time corresponding to ANSI 42.33 Type 2

Applications:

PM1621M may be used independently or as part of system for everyday, efficient and emergency control of personnel and people at sites, production facilities and units, where there is potential or real risk of exposure to external X-ray and gamma



ALARM

LOCATION

MEASUREMENT

Features

- Combines Personal Radiation Detector and Dosimeter functionality
- Easy to use, two-button operation
- Shows the user accumulated dose
- Four independent dose and dose rate alarm thresholds
- Allows searching for radiation sources
- Vibration /Audible /Light Alarms
- Wide energy and dose rate range
- **PC** communication by **IR** interface
- Storage of 1000 events history
- Shockproof hermetic case
- Light weight and small dimensions

PM1621M has a unique combination of radiation detection and dosage accumulation capability. It's a perfect low cost instrument for first responders giving its users opportunity to detect and evaluate radiation levels and determine exposure level from gamma radiation sources and X-ray sources and alarm in case preset thresholds for the dose or dose rate are exceeded.





PORTABLE RADIATION DETECTOR

PM1621M/PM1621MA

SPECIFICATIONS

Detector	Advanced Geiger-Muller tube
Dose equivalent rate range (DER): PM1621M PM1621MA	0.01 μSv/h - 0.2 Sv/h 0.01 μSv/h - 2 Sv/h
Dose equivalent rate threshold range	Two thresholds within all DER measurement range
Dose equivalent range (DE)	0.01 μSv - 9.99 Sv
Dose equivalent threshold range	Two thresholds within all DE measurement range
Accuracy of DER measurement in the range 10 mR/hr - 10 R/hr (H is the dose equivalent rate, mR/hr)	$\pm(15 + 0.000015/H + 0.0001H)\%$
Accuracy of DE measurement in the range 100 mR - 999 R	$\pm 15\%$
Energy range	10 keV - 20 MeV
Energy response relative to 0.662 MeV (Cs-137) within the full energy range	$\pm 30\%$
Time of response at discontinuous variation of DER (according to IEC 61526 and ANSI N42.33 Type2), no more than	4s - at increase
Additional functions	<ul style="list-style-type: none"> - PC communication mode - Vibration alarm - Sound operations mode 85 dB(A) at 1 foot - Metal belt clip
Automatic data logging	1000-point data log record intervals from 1 second
Power supply	one battery AA
Battery lifetime	12 months
Battery discharge indication (partial and critical)	indication on LCD
Operating conditions: - temperature range - pressure	- 40 ... + 60 °C 70 - 106.7 kPa
Degree of protection provided by housing	IP67
Dimensions	87 x 72 x 35 mm
Weight (with battery), no more than	150 g

Design and specifications of the device can be changed without further notice.

