



X-RAY AND GAMMA RADIATION ELECTRONIC PERSONAL DOSIMETER

PM1621/PM1621A

The most efficient dosimeter, available on the market. These are highly sensitive, durable, reliable instruments with number of unique features.

Recommended to use by Law Enforcement and Security agencies, scientists, medical and other professionals, exposed to gamma and X-ray radiation.

PM1621/PM1621A personal electronic dosimeters designed to monitor and measure dose equivalent and dose equivalent rate of X-ray and gamma radiation and record even slightest fluctuations in the ambient background.

The PM1621/PM1621A series dosimeters are designed for continuously monitoring of:

- Personal dose equivalent rate of external photon radiation Hp(10)
- Personal dose equivalent of external photon radiation Hp(10)
- Time of dose accumulation.



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IRDA

Applications

- Medical professionals
- Personnel of nuclear facilities
- Radiological and radionuclide isotope laboratories
- Emergency services
- Scientists
- Other professionals, exposed to gamma and X-ray radiation

Versions

- PM1621- up to 0.2 Sv/h
- PM1621A up to 2 Sv/h

Features

- Easy to use, two-button operation
- Wide energy range 10 keV 20 MeV
- Wide dose rate range: from natural background levels up to 2 Sv/h
- Two independent dose and dose rate alarm thresholds
- Adjustable audio and visual alarms
- Non volatile memory for 1000 events readings of dose accumulation history (dose rate changes)
- LCD display, electroluminescent backlight
- Shockproof hermetic case
- PC communication via IR interface
- Light weight and small dimensions

ALARM

LOCATION

MEASUREMENT





Innovating Radiation Detection Technologies Since 1992

X-RAY AND GAMMA RADIATION ELECTRONIC PERSONAL DOSIMETER PARTIES AND STATEMENT OF A STATEMENT OF

SPECIFICATIONS

Detector	Geiger-Muller tube
Dose equivalent rate (DER) range Hp(10) PM1621 PM1621A	0.01 μSv/h - 0.2 Sv/h 0.01 μSv/h - 2 Sv/h
Dose rate and dose threshold range	within all measurement range
Dose equivalent (DE) range Hp(10)	0.01 μSv - 9.99 Sv
Accuracy of DER measurement in the range: $-0.1~\mu Sv/h - 0.1~Sv/h~for~Pm1621 \\ -0.1~\mu Sv/h - 1.0~Sv/h~for~PM1621A$	±(15 + 0.0015/H + 0.01H)% H is the dose equivalent rate, mSv/h
Accuracy of DE measurement in the range 1.0 μSv - 9.99 Sv	±15%
Energy range	10 keV - 20 MeV
Energy response relative to 0.662 MeV (Cs-137) within the full energy range	±30%
Response time at discontinuous variation of DER (according to IEC 61526), no more than	5s - at increase 10s - at decrease
Coefficient of variation	< 15 %
Survive after momentary influence of maximum permissible gamma radiation: PM1621 PM1621A	1 Sv/h 10 Sv/h
Additional functions	PC communication mode
Drop test on concrete floor	0.7 m
Power supply	One AA battery
Battery lifetime	12 months
Battery discharge indication (partial and critical)	indication on LCD
Operating conditions: - temperature range - LCD indication - relative humidity (at 35°C) - pressure	- 40 + 60 °C - 20 + 60 °C up to 98% 84 - 106.7 kPa
Protection degree of case	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.



Meets most relevant parts of IEC 61526, and ANSI N42.20

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