



Innovating Radiation Detection Technologies Since 1992

X-RAY AND GAMMA RADIATION ELECTRONIC PERSONAL DOSIMETER PM1621/PM1621A



The most efficient dosimeter available, unique features, high sensitivity, durability, reliability.

For Law Enforcement, Security, Scientists, Medical Professionals and other professionals exposed to radiation.

Due to unique characteristics, dosimeter capable to measure user's exposure levels when working with X-ray and to gamma radiation sources and record even minor fluctuations of natural background.

Dosimeter meets requirements of IEC 61526 standard.

The PM1621/PM1621A are designed to provide continuous measurement of:

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



Features

- Easy to use, two-button operation
- PC communication by IR interface
- Wide energy range 10 keV – 20 MeV
- Wide dose rate range - from least values of natural background up to 2 Sv/h
- Two independent dose and dose rate alarm thresholds
- Audible and visual alarms when thresholds are exceeded
- Storage of user PIN and 1000 readings of dose accumulation history (dose rate changes)
- LCD display, electroluminescent backlight
- Shockproof hermetic case
- Light weight and small dimensions

Applications

- Medical professionals
- Personal of nuclear facilities
- Radiological and isotope laboratories
- Emergency service
- Scientist
- Other professionals exposed to radiation

Versions

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



ALARM



LOCATION



MEASUREMENT

IRDA



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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 μ Sv/h - 0.1 Sv/h for PM1621 - 0.1 μ Sv/h - 1 Sv/h for PM1621A H is the dose equivalent rate, μ Sv/h	$\pm(15 + 0.0015/H + 0.01H)\%$
Accuracy of DE measurement in the range 1 μ Sv- 9.99 Sv	$\pm 15\%$
Energy range	10 keV - 20 MeV
Energy response relative to 0.662 MeV (Cs-137) within the full energy range	$\pm 30\%$
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.

