



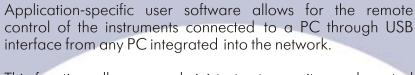
Innovating Radiation Detection Technologies Since 1992

RADIATION MONITOR

PM1405

The PM1405 Radiation Monitor is designed for a wide range of radiation safety applications.

The instrument measures beta radiation flux density from contaminated surfaces and ambient dose equivalent rate of gamma and X-ray radiation, alerts the user with audible alarms when preset radiation levels are exceeded, and has the search mode with beeps at every detected count.



This function allows an administrator to monitor and control operation of each instrument.





Features

- Measurement of gamma and X-ray radiation
- Measurement of beta-particles flux density
- Mode of searching for beta, gamma and x-ray radiation sources
- Large LCD display with backlight
- Audible alarm
- Data logging capability
- PC communication via USB interface
- Universal power supply: two AA batteries or from PC via USB
- Light weight and small dimensions







MEASUREMENT BETA, GAMMA

ALARM

LOCATION

Applications

- First responders
- Custom and border patrol officers
- Radiological and isotope laboratories
- Bank personnel
- Wide range of experts whose activity involves the control of radiation sources





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SPECIFICATIONS

Gamma detector	Geiger-Mueller counter
Dose equivalent rate (DER) indication range	0.01 μSv/h - 130 mSv/h
Maximum intrinsic relative error of DER measurement in the range 0.1 µSv/h - 100 mSv/h	±(20+(1,0 μSv/h)/X)%, where X - DER value in μSv/h,
X-ray and gamma radiation energy range	0.04 to 3.0 MeV
Energy dependence relative to 0.662 MeV (137Cs) in DER measurement mode in the energy range 0.06 - 3.0 MeV, not more than	±30 %
Beta flux density indication range	0.1 - 10 ⁴ min ⁻¹ ·cm ⁻²
Maximum intrinsic relative error of beta flux density measurement relative to (90 Sr+90 Y) in the range 6.0 - 103 min ⁻¹ .cm ⁻²	(20 + A/φ) %, where φ-beta-flux density, min ⁻¹ ·cm ⁻² , A = 60 min ⁻¹ ·cm ⁻²
Beta radiation energy range	0.1 to 3.5 MeV
Beta sensitivity relative to (90Sr+90Y), not less than	3.5 counts⋅cm²
Communication with computer	USB interface
Power requirements	two AA batteries or external from PC via USB
Batteries lifetime	6 months typical
Environmental: - temperature range - relative humidity	-10 to +50°C up to 95 % at 35°C
Weight, max	290 g
Dimensions	148x85x40 mm

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



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