

## Hand-held Radiation Detectors and Radioisotope Identifiers

The multifunction instruments equipped with the multiple detectors (internal or external) are designed for search, localization, measurement and identification of various radiation sources.



### PM1403

Multifunctional, networked mobile monitor for measuring all types of ionizing radiation and spectrum collection of gamma emitting sources with built-in GPS and GPRS modules.

The device is equipped with a built-in CsI(Tl) detector for the detection and localization of gamma radiation sources and reliable identification of radioisotopes. In addition, the device has five external probes for detection of alpha, beta, gamma and neutron radiation.

Moreover, these smart probes can be used as an integrated part of the radiation control system.

**Main unit**  $\gamma$ -search and spectrometry (CsI)

Sensitivity for  $^{137}\text{Cs}$ :  $100 \text{ s}^{-1}/(\mu\text{Sv/h})$

Sensitivity for  $^{241}\text{Am}$ :  $300 \text{ s}^{-1}/(\mu\text{Sv/h})$

Dose rate range:  $0.1-100 \mu\text{Sv/h}$

**BDG2**  $\gamma$ -measuring (GM-tube)

Dose rate range:  $0.1 \mu\text{Sv/h} - 10 \text{ Sv/h}$

Energy range:  $0.03 - 3.0 \text{ MeV}$

**BDG3**  $\gamma$ -measuring and search (CsI)

Dose rate range:  $0.1-40 \mu\text{Sv/h}$

Sensitivity for  $^{137}\text{Cs}$ :  $200 \text{ s}^{-1}/(\mu\text{Sv/h})$

Energy range  $0.05 - 3.0 \text{ MeV}$

**BDN** neutron search ( $^3\text{He}$ -tube)

Dose rate range:  $1 - 5000 \mu\text{Sv/h}$

Energy range: thermal -  $14.0 \text{ MeV}$

**BDAB**  $\alpha$ -b measuring (proportional counter)

$\alpha$ -flux density measurement range:  $1-5 \cdot 10^5 \text{ min}^{-1} \text{ cm}^{-2}$

$\beta$ -flux density measurement range:  $10-10^6 \text{ min}^{-1} \text{ cm}^{-2}$

Energy range:  $0.15 - 3.5 \text{ MeV}$

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