PDM-227 Electronic Pocket Dosimeters

A X (gamma) ray dosemeter suitable for measuring low-energy X rays, such as medical radiography

The MY DOSE series allows you to check at any time the accumulated amount of radiation exposure. They are designed to be placed in a pocket (chest or abdomen) of a worker who handles radiation or a person who happens to enter a radiation handling facility.



Features

- Compact enough to fit comfortably in pocket
- Alarm function equipped
- Wide measurement range from 1μSv to 1Sv
- Accumulated dose and dose rate measuring
- Data holding function
- Easy to see display with backlight

Specifications

- **Radiation detected**
  X-ray and Gamma
- **Energy threshold**
  20keV
- **Detector**
  Silicon semiconductor
- **Measurement range**
  Dose: 1μSv to 1Sv (0.1mrem to 100 rem),
  Dose rate: 1μSv/h to 100mSv/h (0.1 mrem/h to 10 rem/h)
- **Accuracy**
  Within ±10% from 10μSv to 1 Sv (from 1mrem to 100rem) Calibrated by ^{241}Am using a slab phantom
- **Alarm**
  5-type, Accumulated dose caution and alarm, Elapsed time alarm,Dose rate caution and alarm
- **Waterproof and dustproof**
  IP54
- **Power**
  One lithium battery CR2450
- **Battery life**
  Approx. 700 hours of continuous use (at room temperature of 20 degrees C)

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- **Environmental requirements in operation**
  Temperature: -10 to +50 degrees C, Relative humidity: up to 90% (non-condensing)
- **Dimensions**
  Approx. 31 (W) x 13 (D) x 140 (H) mm (excluding the clip)
- **Weight**
  Approx. 55 g