

Active Extremity Dosimeter

Monitoring the extremities is extremely important when handling radiopharmaceuticals, in cardiology, oncology and in glove box work as whole body dose may underestimate the extremity dose, especially when there are high dose gradients.

The ED3 Active Extremity Dosimeter provides monitoring of Hp(0.07) for betas and photons (gammas and X-rays) on the extremities.

Probes come precalibrated and are interchangeable on the ED3 electronics unit.

Key Characteristics

- Real-time readout for 1—2 detectors
- Measures Hp(0.07) for betas and photons
- Detectors are removable for decontamination or replacement
- Collected data may be analyzed, stored and archived on a PC using the included software
- May be adapted for Eye dosimetry Hp(3)



Uses

- Interventional Radiology
- Radiation therapy
- Nuclear Medicine
- Glove Box Applications
- High Dose Gradient Environments

Benefits

- Real time monitoring for dose of record or ALARA
- Better dose assessment in high dose gradients
- Easy to wear
- Dose chain of custody
- Facilitates training

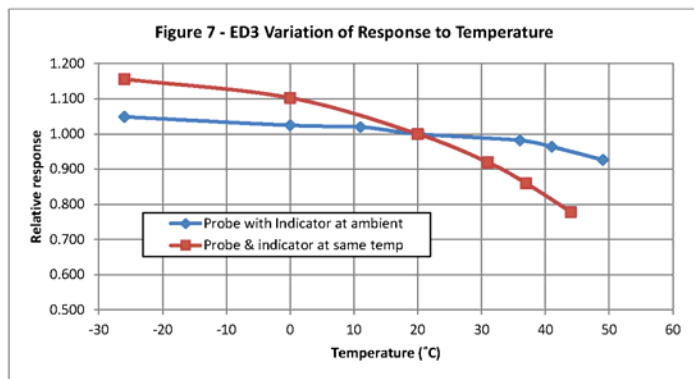
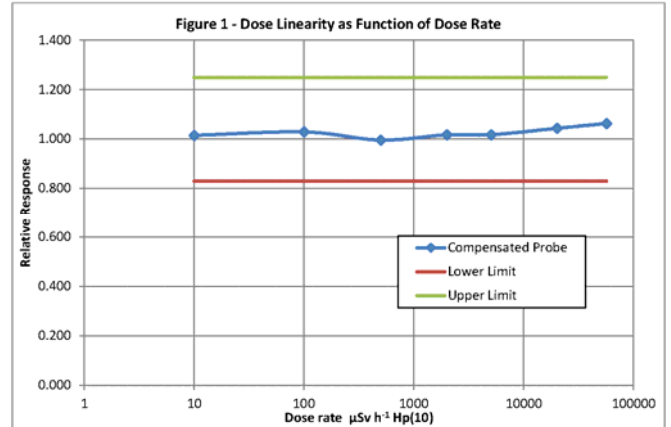
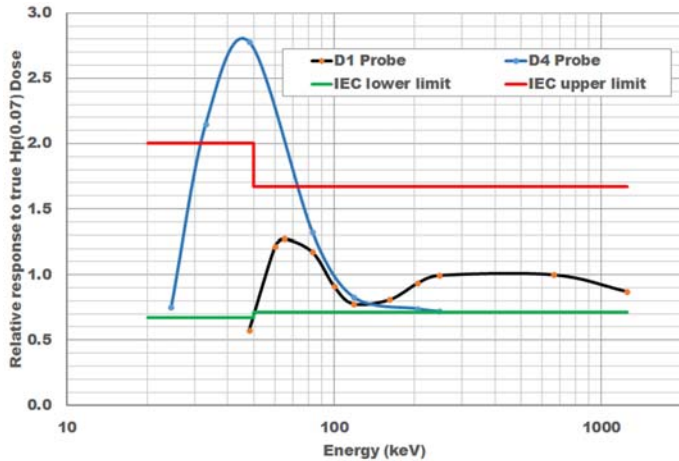
Specifications

| | |
|-----------------------------|---|
| Energy Range | |
| Low Energy Photons | 33 keV* — 60 keV |
| Betas | |
| ⁹⁰ Sr | 0.31 relative to ¹³⁷ Cs |
| ⁸⁵ Kr | negligible relative to ¹³⁷ Cs |
| High Energy Photons | 60 KeV — 1.2 MeV |
| Effective Dose Range | 1.0 μSv — 999.9 mSv 0.1 mrem—99.99 rem |
| Effective Dose Rate Range | 0.0 — 99.9 mSv/h 0.0 — 9.99 rem/h |
| Size & Weight | 99 x 60 x 35 mm — 245 g |
| Environmental | IP53 |
| Display | 16 x 2 character LCD |
| Battery Life (Rechargeable) | Over 60 hours per charge with normal use |

Self Test and Alarms

- Low Battery
- Missing Probe
- Dose & Dose Rate Alarm
- Dose & Dose Rate Overload

ED3 Performance Characteristics



Carrying Case With Accessories



ED3 ports

- USB data,
- Charging
- Power Switch



ED3 Detector Connectors

| ED3 Active Extremity Dosimeter | |
|--------------------------------|---|
| Part Number | Description |
| ED3 | Active Extremity Dosimeter for monitoring, collecting and displaying data from 1 or 2 detectors (must be the same type) . Supplied with 1 x ED3D1 detector, PC software ED3 Data Manager. An ED3D4 may be substituted for the ED3D1 detector. |
| ED3D1 | Detector designed to measure Hp(0.07) for photons from 60 keV to 1.25 MeV. |
| ED3D4 | Detector designed to measure Hp(0.07) for betas and photons below 60 keV. *Lower energies are possible, but response variability may increase. |
| ED3 Calibration | Calibration of the ED3 with probes |

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Serving the Dosimetry and Radiation Protection Community with Technologies and Solutions