

## ELECTRONIC PERSONAL DOSIMETER



- Ergonomic rugged design
- Excellent response to gamma, beta and x-ray radiation
- Loud, audible alarm
- Easy to read display

The Electronic Personal Dosimeter combines unequalled radiological performance with advanced software and hardware features. It is suitable for use as a single stand-alone dosimeter or as part of a comprehensive dosimetry management system.

### SPECIFICATIONS:

**Radiation:** Gamma, beta and x-ray radiation

**Dimensions:** 3.3" l x 2.5" w x .8" depth (85 x 63 x 19 mm), excluding clip

**Direct Readout:** Dose equivalents of deep dose (Hp 10) and shallow dose (Hp 0.07)

**Display Resolution:** 0.1 mR up to 1 R

**Dose Rate Display:** 0 mR/h to >400 R/h auto ranging, resolution 2 most significant digits or 0.1 mR/h deep dose (Hp 10), 1mR/h shallow dose (Hp 0.07)

**Energy Response:**

**Deep Dose (Photon Hp 10):**

- ±50% 15 keV to 17 keV (ref. <sup>137</sup>Cs)
- ±20% 17 keV to 1.5 MeV (ref. <sup>137</sup>Cs)
- ±30% 1.5 MeV to 6 MeV (ref. <sup>137</sup>Cs)
- ±50% 6 MeV to 10 MeV (ref. <sup>137</sup>Cs)

**Shallow Dose (Photon Hp 0.07):**

- ±30% 20 keV to 6 MeV (ref. <sup>137</sup>Cs)
- ±50% 6 MeV to 10 MeV (ref. <sup>137</sup>Cs)

**Shallow Dose (Beta Hp 0.07):**

- ±30% 250 keV to 1.5 MeV E (ref. <sup>90</sup>Sr/<sup>90</sup>Y)

**Alarm Warnings:** Audible and visual alarms for dose, dose rate, count down time, read time and failure modes; high/low tone, loud/quiet volume in 7 combinations of continuous or fast/slow intermittent

**Audible Alarm:** Fully sealed typically 97 dB (A) at 20 cm with multiple modes

**Memory:** Ten-year data retention without battery; short-term dose registers for deep dose (Hp 10) and shallow dose (Hp 0.07) can be reset after each Radiation Area entry, day, month, etc. by radiation protection staff or dose management system, according to local procedures

**Battery:** 1.5 V AA Alkaline (typically 8 weeks continuous operation)

**Operating Conditions:**

**Temperature:** 15° F to 105° F (-10° C to + 40° C)

**Relative Humidity:** 20% to 90%, non-condensing

**Weight:** 3.2 oz (95 g)

**019-016** Dosimeter, Electronic Personal, mR

## DIRECT READING DOSIMETERS



For personnel working in radiation areas, Direct Reading Dosimeters provide an accurate and instantaneous indication of accumulated exposure.

Accurate to 10% of True Dose for Cs-137 or Co-60 gamma. Less than 0.5% leakage of full scale in 24 hours at 50° C. Hermetically sealed.

Resembling fountain pens in size and appearance, they contain a quartz fiber electrometer and compound microscope.

The fiber is set at zero with a battery operated charger. As X- or gamma rays strike the charged Dosimeter, the fiber moves up scale in proportion to the radiation exposure.

**019-201** Dosimeter, Direct Reading, 200 mR

**019-500** Dosimeter, Direct Reading, 500 mR

**019-010** Dosimeter, Direct Reading, 2 R

## DOSIMETER CHARGER



The Dosimeter Charger is used to "zero" all Direct-Reading Dosimeters. It requires one 1 1/2 volt D Cell battery, sufficient for thousands of chargings.

**020-001** Dosimeter Charger

*Note: Battery not included*

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