

DOSIMETER Active Personal Dosimeter - APD



Product description:

The electronic dosimeter measures dose and dose rates. These measurements are displayed in real-time so the user has an immediate feed-back of his current exposure.

The APD has been designed to respond to the medical professional key requirements: a simple to use, precise and reliable instrument. This is why we made it manipulation-free and without any buttons. All personalization is automatically done during attribution, meaning when the user identifies himself to get a preconfigured dosimeter. This personalization includes alarm levels and dose measurement recording criteria.

When a user returns a dosimeter to an attribution station, the measured dose is automatically transmitted to the database and the APD is available for someone else to use. Thus, the APDs are sharable among all registered users. This minimizes the number of needed APDs since not all staff members use a dosimeter at the same time.

The main characteristics of the APD are:

- Name and first name display for easy identification of the current user
 - ~ The user name and personalization information is downloaded during the APD assignment phase
 - ~ Assignment phase takes a few seconds with the personal ID-Code code
- Dose and dose rate measurements are indicated in :
 - ~ Hp(10) and drHp(10) as personal deep dose and dose rate
 - ~ HP(0.07) and drHp(0.07) as personal shallow dose and dose rate
 - ~ - Measuring range is from 1µSv to 100Sv and 1µSv/h to 10Sv/h respectively
- Alarm levels are predefined for each user or task and automatically set at attribution:
 - ~ Dose Alarm : set to trigger at any user-defined dose level.
 - ~ Dose Rate Alarm: set to trigger at any user-defined dose rate level.

All the alarms are both acoustic (beeps) and visual with flashing LEDs. Alarms are also registered and saved in the database during the APD de-attribution phase. Furthermore, the radiation officer is notified when someone got exposed over the expected limit and thus can take the appropriate actions.

- Maintenance-free: the APD has a rechargeable battery so no user maintenance is required. The attribution station automatically recharges the stored APDs.
- Ergonomic: light instrument (less than 65gm) with different attachment solutions (pocket clip, pinch clip)
 - A Bluetooth version is also available and the dosimeter data can be viewed in real time on a dedicated tablet

Reference: DOSI0005