

SEQ 5-6-7B-8

Pen dosimeters

- The SEQ direct reading dosimeters give workers accurate real-time information on the X, β and gamma absorbed dose. The dose can be read easily by viewing the quartz fiber through a high quality microscope. This quality image allows the use of a digital automatic reader, the LAD 100, for real-time dose management. The dosimeters are to be reload periodically using CAT6 charger.

Technical characteristics

Detector: Quartz fiber electrometer mounted in an ionisation chamber

Energy Response :

- **SEQ 5:** 40 keV to 5 MeV
- **SEQ 6:** 18 keV to 6 MeV
- **SEQ 7B:** 5 keV to 3 MeV
- **SEQ 8:** 18 keV to 3 MeV

Polar response: Less than $\pm 20\%$ within $\pm 45^\circ$ from preferred direction (perpendicular to dosimeter axis)

Miscellaneous

Drift: Less than 0.5% of total scale within 24 hours (average value measured during 5 days)

Accuracy: Better than $\pm 10\%$ (dosemeter calibrated to ^{137}Cs , source calibration tolerance excluded)

Ranges (Display in rad: upon request):

- **SEQ 5:** 200 mR, 500 mR, 1R, 5R, 2 mSv, 5 mSv, 10 mSv, 50 mSv, 500 mSv
- **SEQ 6:** 200 mR, 500 mR, 2 mSv, 5 mSv, 10 mSv, 50 mSv
- **SEQ 7B:** 2 mSv, 5 mSv
- **SEQ 8:** 200 μSv



- Detects photon down to 5 keV
- Hermetically sealed (glass – metal seal)
- Shock resistant
- Readout in new or old measuring units
- Extremely low drift

Environment:

- Temperature: -25°C to $+50^\circ\text{C}$
- Humidity: 100% at $+20^\circ\text{C}$

Dimensions:

- Range up to 5 R : \varnothing : 13.7 mm, L: 103 mm
- Range 5R and more : \varnothing : 13.7 mm, L: 120mm
- SEQ 8 : \varnothing 33.7 mm, L: 103 mm

Weight: less than 50 g

