



According to the German Radiation Protection Ordinance (StrlSchV §§ 40, 41), the body dose of persons has to be determined. Upon request, the person to be monitored has to be provided with a dosimeter to be able to measure the personal dose at any time. For pregnant women, the radiation exposure at work has to be determined every week.

Nowadays, for dose monitoring, modern powerful electronic dosimeters with easy to read LCD-display and definable dose and dose rate alarm thresholds are available.

System characteristics:

- personal dosimeter appropriate for calibration and capable of measuring the personal depth dose $H_p(10)$ according to the new German Radiation Protection Ordinance (StrlSchV)
- qualification approval by the German Institute of Weights and Measures (PTB)
- digital display of dose and dose rate
- X-ray and gamma radiation 50 keV- 3 MeV
- silicon diode with energy compensation filter as detector
- alarm values for dose and dose rate definable, incl. acoustic and optical alarm
- continuous self-check function
- very small dimensions, very low weight (80g)
- battery operated
- improved shielding against electromagnetic radiation

Accessories:

- radioactive control device with Cs-137- test source (3,7 MBq) for radiological check and semi-annual control of the calibrated dosimeter for prolongation of the calibration validity.
- rack for storage of the dosimeters. 15 storage positions

Dosimetry software DOSMO

Electronic dosimeter like the DoseGUARD S 10 can be used self-sufficiently as an independent single dosimeter.

For larger groups of people, the electronic dosimeter can be read out automatically in connection with a PC-based dosimetry reading system and the evaluation software DOSMO. All dosimetry tasks defined in the German Radiation Protection Ordinance (StrlSchV) are fulfilled by this system.

Via an interface, the dosimeter reading system reads the dose value stored in the dosimeter. The personal dose values are registered and used to calculate the week dose, month dose and year dose. Limit values can be monitored safely in this way. Further functions, e.g. period monitoring, annual protocols, monitoring of the access rights complete the performance spectrum.

Our dosimetry system can be used as a single place system or connected to several reading systems as a network version



Dosimeter reading system ADR with PC-system



Calbration station



Storage rack for dosimeters