

DoseGUARD S 10*

Personal Alarm Dosimeter



Use and Function

One of the primary goals of the **Radiation Protection Ordinance** is to define protection guidelines for occupationally exposed persons.

“The body dose of persons in controlled areas has to be determined. Upon request, the person being monitored has to be provided with a dosimeter to be able to measure the personal dose any time” (§§ 40, 41 German **Radiation Protection Ordinance**). The measured variable for personal Dosimetry is the personal depth dose Hp(10) as defined by the new **Radiation Protection Ordinance**.

Features

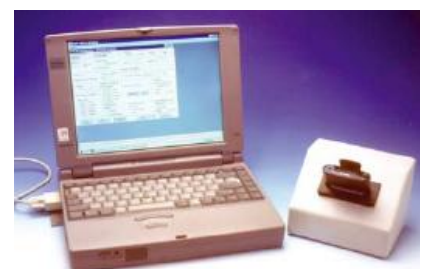
- Personal dosimeter appropriate for verification and capable of measuring the personal depth dose Hp(10) in accordance with the new Radiation Protection Ordinance of July 20, 2001.
- Qualification approval by the German Institute of Weights and Measures (PTB) No. 23.52/01.08.
- Digital display of dose and dose rate.
- Dose display 1µSv – 9.99 Sv, dose rate display 1µSv/h – 9.99 Sv/h.
- X-rays and Gamma radiation, energy range 60 keV- 3 MeV.
- Silicon diode with energy compensation filter as detector.
- Alarm values for dose and dose rate adjustable, including audible and visual alarm.
- Continuous self-diagnostic operational checking.
- Smallest dimensions, lowest weight (< 80 g), modern design.
- Improved shielding against electromagnetic radiation.

Technical Data DoseGUARD S 10

Type of radiation:	Gamma and X-rays
Measured variable:	Personal depth dose Hp(10)
Detector:	Silicon diode with energy compensation filter
Photon energy:	60 keV – 3 MeV, f = 21 %
Angle of incidence of radiation:	0 to ± 60 degrees
Measurement range:	Dose: 10 µSv to 9.99 Sv
Display range:	Dose: 1 µSv – 9.99 Sv
Dose rate:	1 µSv/h – 9.99 Sv/h. The dose rate display is not approved for calibration.
Alarm thresholds:	Six preset values for dose and dose rate
Push button functions:	<ul style="list-style-type: none"> - Change display (dose / dose rate) - Switch dosimeter on and off - Turn loudspeakers on and off - Reset dose - Change alarm thresholds - Activate battery test
Temperature range:	10°C to + 50°C
Humidity:	10% - 90% relative humidity, f = 11%
Battery type:	1.5 V, LR 03 AAA
Dimensions:	78 x 67 x 22 mm, without clip fixing
Weight:	< 80 g including battery

Optional accessories

- **Radioactive Control and Test Device**
with Cs-137 test source (3.7 mBq) for semi-annual control of the calibrated dosimeter for prolongation of the calibration validity from 2 to 6 years.
- **Rack**
accommodating 15 dosimeters
- **Dosimeter Reader / Dosimetry Software**
for automatic read-out of the dosimeter and keeping track of person-related dose values as defined by the Radiation Protection Ordinance.



*Manufactured by MED – Nuklear-Medizintechnik Dresden GmbH

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