

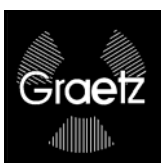
Electronic Personal Dosemeter ED 150

with doserate indication and alarm functions

- PTB-approved dosimeter for measuring gamma- and X-rays
- measuring size: personal dose equivalent $H_p(10)$
- detector: energy-compensated GM-tube
- digital indication of measured values on LC-display
- dose indication range with floating decimal point
- doserate indication upon keystroke
- high measuring accuracy
- reliable and safe measurement of radiation in front of the user's body (detection of a solid angle of 180°)
- especially shaped display ensures optimum reading of measured values
- switchable acoustic single-pulse indication
- 4 dose alarm thresholds
- 4 doserate alarm thresholds
- menu-driven operator-guidance
- storage of dose value and set parameters also during battery replacement
- high reliability by continuous self control and test function
- small and handy metallized housing made of high impact-proof plastic, easy to decontaminate, watertight up to 0,5 m depth (acc. to IP 67)
- EMC-proof
- power supply by 3 pcs. Lady cells LR1, 1,5V
- operating life approx. 1 year at ambient background radiation with one battery set
- when used together with the readout unit EDAG 02 also usable as system dosimeter
- optical interface for EDAG 02

Technical Data

Dose indication range	$0,1 \mu\text{Sv} \leq H_p(10) \leq 10 \text{ Sv}$
PTB-approved dose measuring range	$10 \mu\text{Sv} \leq H_p(10) \leq 1 \text{ Sv}$
Doserate indication range	$0,1 \mu\text{Sv/h} - 1,5 \text{ Sv/h}$
Energy range	55 keV – 3 MeV
Dose alarm thresholds	4 preset values in the range of $1 \mu\text{Sv}$ up to 10 Sv, each independently acknowledgeable
Doserate alarm thresholds	4 preset values in the range of $1 \mu\text{Sv/h} - 1,5 \text{ Sv/h}$ each independently acknowledgeable
Temperature range	-20°C up to $+60^\circ\text{C}$
Dimensions	(136x40x17) mm
Weight	approx. 160 g
PTB – Approval No.	23.52 / 04.01
German Fire Brigades Approval No.	DW/FW/IdF 040411



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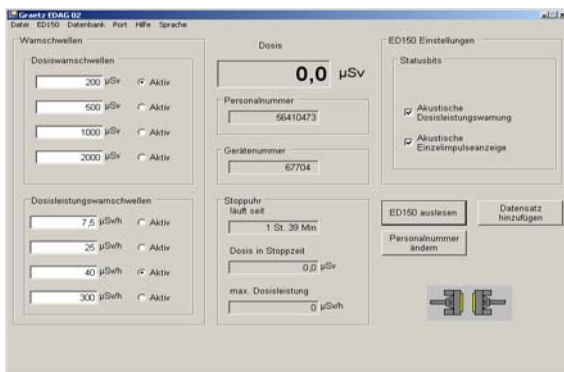
Readout unit EDAG 02 for ED 150



The ED 150 can be either used as „stand alone“ dosimeter or combined with the readout unit EDAG 02 as system dosimeter, too.

By using the RS 232-interface, the EDAG 02 is connected with a PC. For reading out the measured data of the ED 150 (e. g. dose values) respectively for programming certain functions of the ED 150 (e. g. alarm thresholds, personnel numbers) the software is Windows compatible. These data are represented as graphics or in tabular form. All dose data can be processed with MS-Access.

The communication between the ED 150 and the readout unit is effected by the optical interface of the ED 150.



▲ user surface for programming reading out the ED 150

System requirements:

- Intel Pentium 400 or higher
- Microsoft Windows 98, ME, 2000 or XP
- storage: 128 MB RAM (256 MB or more recommended)
- 70 MB free hard-disk storage
- CD-ROM drive assembly
- screen: VGA or higher resolution
- mouse or other pointer
- readout unit GRAETZ EDAG 02 and EDAG 02-software
- at least one electronic dosimeter ED 150 to be read out

The following information about each employee is available either on the screen or as hardcopy printout (e. g. for the radiation protection department):

- accumulated dose for the past 30 or 90 days as annual dose (graphic or in tabular form)
- exceeded dose limit values
- data of previous years
- all settings of the ED 150 (e. g. alarm thresholds, personnel numbers)

