

UNIDOS®

Universal Dosemeter



High performance secondary standard and reference class dosimeter / electrometer for universal use

Features

- ▶ Suitable for universal dosimetry in radiation therapy, diagnostic radiology and health physics
- ▶ Suitable for monitor calibration and patient dosimetry
- ▶ High accuracy, excellent resolution (1 fA) and wide dynamic measuring ranges
- ▶ Exceeds requirements of calibration labs for leakage, linearity, reproducibility and stability
- ▶ Measures integrated dose (or charge) and dose rate (or current) simultaneously

UNIDOS is a high precision reference class therapy dosimeter according to IEC 60731, a secondary standard dosimeter according to IPEM guidelines, an in-vivo dosimeter for patient contact measurement according to IEC 60601-2-9, an X-ray diagnostic imaging dosimeter according to IEC 61674, and a health physics dosimeter. It fulfills the general requirements for safety of medical electrical equipment according to IEC 60601-1. Ion chambers and solid-state detectors can be connected. A comprehensive chamber library makes it possible to store calibration data of up to 30 chambers. Air density corrections are done by keying in air pressure and temperature, or by means of radioactive check devices. UNIDOS displays the measured values of dose and dose rate in Gy, Sv, R, Gy/min, Sv/h, R/min or Gy·m. The electrical values of charge and current are displayed in C or A. The device includes automatic leakage compensation, an automatic built-in system test and an RS232 interface. It features both mains and battery operation.

Ordering Information

T10005 UNIDOS, connecting system BNT, 115/230 V
T10002 UNIDOS, connecting system TNC, 115/230 V
T10001 UNIDOS, connecting system M, 115/230 V

Options

S100002 UniSet Software for computer communication
L522021 UNIDOS Carrying case

- ▶ UNITEST Electric Test Device *page 23*
- ▶ Radiation Detectors *page 16ff.*