

## **Features**

- High quality reference class dosemeter for radiation therapy, diagnostic radiology and radiation protection
- ▶ Integration in a LAN with the internet standard TCP/IP
- ▶ Remote access functionality
- ▶ E-mail capability, eg. to initiate self tests and to send a status report
- Active, configurable TFT display with wide viewing angles
- Easy and fast menu-driven handling with navigation knob and help system

UNIDOS is well known and accepted worldwide as the dosemeter of choice with best performance available on the market. The new UNIDOS webline sets another milestone in dosimetry. It is a high precision secondary standard reference class dosemeter combinded with modern network features.

The ethernet interface based on the TCP/IP protocol allows to integrate the UNIDOS of in a LAN for remote access and E-mail capability. Its big, user-configurable TFT display garanties visibility from wide angles. A comprehensive chamber library makes it possible to store the calibration data of the chambers. Air density corrections are done by keying in air pressure and temperature, or by means of radioactive check devices. The check device data are stored in a database. An internal clock calculates the decay of the isotope radioactivity. It features both mains and battery operation. The delivery includes a manual in English.

## **Ordering Information**

T10023 UNIDOS<sup>webline</sup>, connecting system BNT, T10022 UNIDOS<sup>webline</sup>, connection system TNC T10021 UNIDOS<sup>webline</sup>, connection system M L522021 UNIDOS Carrying case

<sup>1)</sup>IEC 60731: "Medical electrical equipment - Dosimeters with ionization chambers as used in radiotherapy"

<sup>2)</sup>IEC 61674: "Medical electrical equipment - Dosimeters with ionization chambers and/or semi-conductor detectors as used in X-ray diagnostic imaging"

used in X-ray diagnostic imaging"

3IEC 60846: "Radiation protection instrumentation - Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation"

## UNIDOS Webline Universal Dosemeter

High performance secondary standard and reference class dosemeter / electrometer with integrated network features

## Specification

Type of product High precision dosemeter accor-

ding to IEC 607311, IEC 616742)

and IEC 608463)

Application Dose and dose rate measurements

(charge and current measurements) in radiation therapy, X-ray

diagnostics and radiation

protection

▶ Measuring Absorbed dose to water (Gy)

quantities Air Kerma (Gy)

and units Photon equivalent dose (Sv)

Ambient dose equivalent H\*(10)

Exposure (R)

Dose length product (Gy·cm)

Activity (Bq), (Ci)

Corresponding rates of above

Charge (C) Current (A)

Measuring ranges:

Charge 2 pC ... 8.991 C Current 200 fA ... 2.5 μA

Resolution:

Charge 10 fC Current 1 fA

Long-term  $< \pm 0.1 \%$  p.a.

stability

Non-linearity  $< \pm 0.25$  % according to IEC

Interval time (1 ... 9999) s

▶ Temperature range(10 ... 40) °C, (50 ... 104) °F

Relative humidity (20 ... 80) %, max 20 g/m<sup>3</sup> range

Leakage current  $< \pm 1$  fA

▶ Amplifier zeroing automatically within approx. 75 s

▶ Chamber voltage  $(0 ... \pm 400)$  V in 1 V increments

Interfaces IEEE802 (TCP/IP), RS232

▶ Power supply (85 ... 265) VAC, (50 ... 60) Hz resp.

rechargeable batteries AA (NiMH)

Dimensions 152 mm x 257 mm x 262 mm (H x W x D) 5.98 in x 10.12 in x 10.31 in

Weight approx. 5.9 kg, 13.0 lbs

