# UNIDOS*webline*

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


The UNIDOS*webline* is a high-precision, secondary standard reference class dosimeter combined with modern network features. This unique dosimeter offers high quality, reliability and an excellent adaptation to the measuring tasks. The Ethernet interface makes it possible to integrate the UNIDOS*webline* in a LAN for remote access. Settings can be password protected. A comprehensive statistic and data logging function is implemented. Chamber data are stored in a library

### Features

- Integration in a LAN with the internet standard TCP/IP
- Remote access functionality
- E-mail capability, e.g. to initiate self tests and to send a status report
- Configurable TFT display with wide viewing angles

### Specifications

| | |
|---|---|
| Type of product | High precision dosimeter according to IEC 60731[1], IEC 61674[2] and IEC 60846[3] |
| Application | Dose and dose rate measurements (charge and current measurements) in radiation therapy, X-ray diagnostics and radiation protection |
| Measuring Quantities and units | Absorbed dose to water (Gy)<br>Air Kerma (Gy)<br>Photon equivalent dose (Sv)<br>Ambient dose equivalent H*(10)<br>Exposure (R)<br>Dose length product (Gy·cm)<br>Activity (Bq), (Ci)<br>Charge (C)<br>Current (A) |

Measuring ranges
- Charge ..... 2 pC to 8.991 C
- Current ..... 200 fA to 2.5 µA

Resolution
- Charge ..... 10 fC
- Current ..... 1 fA

Long-term stability ..... < ±0.5% pa
Non-linearity ..... < ±0.5% according to IEC
Interval time ..... 6 to 9999 sec
Temperature range ..... 15 to 35° C, 59 to 95° F
Relative humidity ..... 20 to 80%, max 20 g/m$^3$
Leakage current ..... < ±1 fA
Amplifier zeroing ..... Automatically within approx. 75 s
Chamber voltage ..... 0 to ±400 V in 1 V increments
Interface ..... IEEE802 (TCP/IP), RS232
Power supply ..... 85 to 265 VAC, 50/60 Hz
rechargeable batteries AA (NiMH)
Dimensions ..... 152 mm x 257 mm x 262 mm
5.98 in x 10.12 in x 10.31 in
(H x W x D)
Weight approx ..... 5.8 kg, 12.8 lbs

1) IEC 60731: "Medical electrical equipment – Dosimeters with ionization chambers as used in radiotherapy"

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

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

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