



UNIDOS® C Universal Electrometer

*Easy to use field class electrometer
for routine dosimetry*

Features

- ▶ An economical high quality electrometer for universal use in diagnostic radiology
- ▶ Complies with standard IEC 61674¹⁾ as a diagnostic electrometer
- ▶ High accuracy, excellent resolution (1fA) and wide dynamic measuring ranges
- ▶ HV power supply (0 ... ± 400) V in increments of ± 50 V
- ▶ Measures charge and current simultaneously

The lightweight and compact UNIDOS C is an easy to use electrometer, mainly used for daily routine measurements in diagnostic radiology. Ion chambers and solid-state detectors can be connected. UNIDOS C displays the electrical values in C and A. The large, high-contrast LC display enables the user easy to read the measuring results. The device includes automatic leakage compensation and an RS232 interface. The high voltage between the ion chamber electrodes is checked automatically. UNIDOS C features both mains and battery operation. The delivery includes a manual in English.

Ordering Information

L981804 UNIDOS C, connecting system BNT,
including SFD Chambers type 34060 and type 34069
L981805 UNIDOS C, connection system BNT,
including SFD Chamber type 34060
L981806 UNIDOS C, connection system BNT,
including SFD Chamber type 34069

Options

T11003.1.020 Carrying case
Additional accessories upon request

Specification

- ▶ Type of product High precision electrometer according to IEC 61674¹⁾
- ▶ Application Charge and current measurements in X-ray diagnostics
- ▶ Measuring quantities Charge (C)
Current (A)
- ▶ Measuring ranges:
 - Charge 2 pC ... 65 mC
 - Current 200 fA ... 1 µA
- ▶ Resolution:
 - Charge 10 fC
 - Current 1 fA
- ▶ Long-term stability < ± 0.1 %
- ▶ Non-linearity < ± 0.5 % according to IEC
- ▶ Accuracy < ± 0.5 % ± 1 digit
- ▶ Interval time (1 ... 9999) s
- ▶ Temperature range (10 ... 40) °C, (50 ... 104) °F
- ▶ Relative humidity (10 ... 75) %, max 20 g/m³ range
- ▶ Air pressure range (700 ... 1060) hPa
- ▶ Leakage current < ± 1 fA
- ▶ Amplifier zeroing automatically within approx. 50 s
- ▶ Chamber voltage (0 ... ± 400) V in 50 V increments
- ▶ Interface RS232
- ▶ Power supply (100 ... 230) VAC, (50 ... 60) Hz resp. rechargeable NiCd batteries
- ▶ Dimensions (H x W x D) 100 mm x 250 mm x 260 mm
3.94 in x 9.84 in x 10.24 in
- ▶ Weight approx. 3 kg, 6.6 lbs

SFD Chambers:

*type 34060 for
conventional
radiology*

*type 34069 for
mammography*



¹⁾IEC 61674: "Medical electrical equipment - Dosimeters with ionization chambers and/or semi-conductor detectors as used in X-ray diagnostic imaging"