



## PC Electrometer™

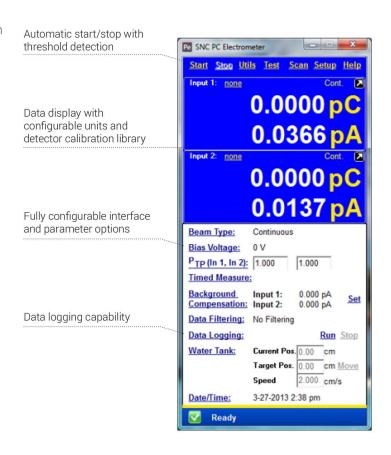
# The Ultimate in Portable Reference Dosimetry

PC Electrometer is a dual channel reference class electrometer for absolute dose calibration. The system is designed for accuracy and convenience. It offers small size (0.4 kg), near no warm-up time (< 1 minute), and complete operation through USB, with no batteries or external power connections.



#### Features and Benefits

- Reference class dosimetry for absolute dose calibration
- Two independent measurement channels
- Lightweight and portable; only 0.4 kg
- USB powered no batteries or power cord
- Intuitive user interface
- Interfaces with the 1D SCANNER™
- Less than 1-minute warm-up time
- Single USB cable connection
- Fast sampling interval of 500 ms
- Detector library



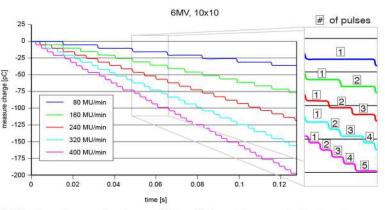
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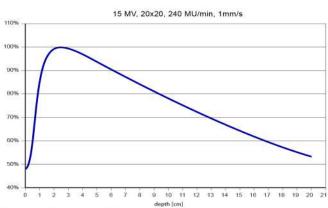




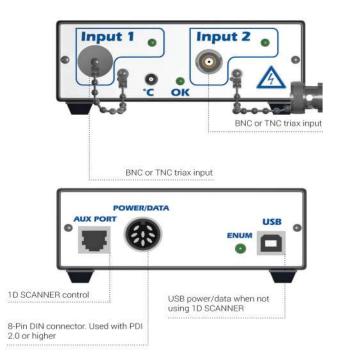
#### **Features**



PC Electrometer sampling is every 500 ms. This graph represents the dynamic range of the PC Electrometer when sampling is lowered to 100 ms (not available in commercial systems). Each step in this graph of total charge indicates a linac pulse as measured with a 0.6 cc chamber. PC Electrometer clearly shows the increase in linac pulse frequency as a function of dose rate. From 80 MU/min, the additional pulses are 1, 2, 3, and 4 for the respective rates of 160, 240, 320, 400.



Fast sampling makes PDD curves smooth and accurate when measured with the PC Electrometer and 1D SCANNER. The PDD curve above is an unsmoothed ratio of Field to Reference, using 0.6 cc Farmer type chambers.







The PC Electrometer directly connects to the 1D SCANNER for monthly and annual QA.

### **Specifications**

Warm Up Time: < 1.0 min

Charge Range: 2 pC - 10 mC, 15 fC resolution

Current Range (Continuous): Low: 2 pA - 50 nA

Current Range (Pulsed): 0-105 pC/pulse

Leakage Drift: ±0.001 pA

Display Update Frequency(s): 500 ms

Bias Voltage: Adjustable, 0 to ±400 V

Non-linearity: ± 0.1% of full scale

Long Term Stability: < ± 0.5%

Measurement Repeatability: ± 0.25% of full scale

A/D Converter: 16 bit

Windows 10, Windows 8.1 or

Operating System: Windows 7 (32 or 64 bit)

Dimensions / Weight: 10.6 x 14.8 x 4.5 cm / 0.46 kg

Compatibility: SNC Dosimetry

Reference class according Conformity:

to IEC 60731

