VERSATILE, AFFORDABLE

The compact, stable, lightweight and easily transported CDX 2000B has wide amp and coulomb ranges for both external beam dosimetry measurements and precise HDR brachytherapy calibrations

CDX 2000B ELECTROMETER

CDX2000B

nC se

-10.00 nA -300.04 nC

e.g

TANDAROIMAGI

NEW! EXTENDED RANGE FOR MANY APPLICATIONS

The wide range of the CDX 2000B (0.01 nA - 500.00 nA) makes it an excellent instrument for external beam, absolute dosimetry measurements with standard Farmer-type and parallel plate ion chambers. It is also reliable and precise for high dose rate brachytherapy applications.

LOW NOISE AND STABLE REPEATABILITY

A powerful digital microprocessor provides 0.1% repeatability and exceptionally low leakage of less than 5 fA. The built-in digital filter nearly eliminates the effects of noise, resulting in stable and exact measurements.

EASY TO USE WITH CONVENIENT FEATURES

Control operations with a fast, push button interface. With user activated zeroing, just press a button and it is ready to measure. The CDX 2000B operates off a rechargeable battery for up to 8 hours of continuous use.

NEW! ENHANCED BIAS SELECTION

The CDX 2000B allows a wide assortment of bias settings for performing both TG-51 and now TRS-398 measurements with support for 1/3 bias ratio settings. Apply (+/-) 450, 300, or 150 VDC to your chamber of choice with no external bias supply required.

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Features

Unique Timing Capabilities

• The unique timing feature is ideally suited for HDR brachytherapy calibration measurements. The CDX 2000B can capture charge for a selected amount of time during an exposure, thereby eliminating end effects or other variable portions of an exposure.

This timed collection application is useful during the measurement of high dose rate brachytherapy sources, allowing the measurement of charge only during the time the source is in place and the rate is constant.

Simple, Intuitive Interface

- Large, easy to read LCD display is visible from a distance and in low light
- Simultaneous display of amp, coulomb, and collection time minimizes the need to switch screens
- User activated, automatic zeroing function

Measure with Confidence

- Designed to exceed AAPM, ADCL and reference grade instrument specifications
- Designed to meet or exceed requirements of IEC 60731
 for reference grade instruments





	CDX 2000B (REF 900	01) SPECI	FICATIONS	
THREE MODE	S	ZERO DRIFT	< 5 fA @ STP	
RATE:	0.01 nA - 500.00 nA	DISPLAY	LCD, 2 x 20 with 5/16" characters	
CHARGE:	0.01 nC – 999,999 nC	DISPLAT		
COMBINED:	Accumulated charge and current are displayed simultaneously	INPUT	BNC two lug, triaxial connector	
CHARGE COLLECTIONS		BIAS VOLTAGE	Nominal \pm 450 volt bias	
TIMED:	User set duration (<i>Range:</i> 0 – 600 seconds; <i>Increment:</i> 15 seconds; <i>Resolution:</i> 1 second)	5 USER SETTINGS:	- 450, - 300, - 150, 0; 150, 300, 450 (VDC)	
CONTINUOUS	Unlimited duration with manual stop	ACCURACY:	\pm 0.3 volt	
REPEATABILITY		POWER	100-240 VAC, 0.5 A max, 50/60 Hz input to external	
SHORT TERM:	± 0.1% ± 1 count		power supply, 9 VDC, 1.7 A power supply output to electrometer input, UL/TUL listed power supply;	
LONG TERM:	\pm 0.2% (maximum change over two years)		internal battery: 8 hrs per charge	
SIGNAL SETTLING TIME (typ): 1 sec.		ZEROING	Automatic zero function, user activated	
LINEARITY	\pm 0.06% typical	DIMENSIONS	Height: 2.75 in, 7 cm Width: 8.24 in, 22.2 cm Length: 9 in, 23 cm Weight: 3.0 lbs, 1.4 kg	
CONFORMITY	C € 93/42/EEC			
			Spacifications subject to obence without patie	

Specifications subject to change without notice.

ORDERING INFORMATION

CDX 2000B ELECTROMETER REF 90001

