O CDX2000B ELECTROMETER



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

• **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.





Features and Benefits

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.

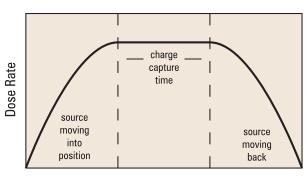
This timed collection application is useful during the measurement of high dose rate brachytherapy sources, allowing the measurement of charge only during the time the source is in place and the rate is constant.

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



Time



		CDX	2000B	(REF	9000	01)	SPECI	FICATION	DNS
DISPLAY RANGE						CONFORMITY		C € 93/42/EEC	
RATE: CHARGE:						ZERO	DRIFT	< ± 0.001 nA	
CHARGE: 0.01 nC – 999,999 nC DISPLAY MODES Rate, Charge, Rate & Charge					_	ZERO SHIFT		< ± 0.001 nA	
CHARGE COLLECTIONS					_	DISPLAY		LCD, 2 x 20 with 5/16" c	
TIMED:	User set duration (<i>Range</i> : 0 – 600 seconds; <i>Increment</i> : 15 seconds; <i>Resolution</i> : 1 second)					INPUT		BNC two lug, triaxial cor	
CONTINUOUS: Unlimited duration with manual stop						BIAS VOLTAGE		Nominal ± 450 volt bias	
REPEATABILI	TV	± 0.1%				5 USER SETTINGS:		-450, -300, -150, 0;	
nertalabititi		(IEC 60731 requirement: ± 0.5%)				ACCURACY:		\pm 0.3 volt	
LONG-TERM STABILITY		± 0.5% (over one year)			POWER		100-240 VAC, 0.5 A ma		
STABILIZATION TIME		± 0.1% (IEC 60731 requirement: ± 0.5% of value at 1 fr for measurements taken at 15 min					power supply, 9 VDC, 1. to electrometer input, U internal battery: 8 hrs pe		
		and 6 hrs)			ZEROING		Automatic zero function		
RESPONSE TIME < 3 s (IEC 60731 requirement: < 3 s)						DIMENSIONS		Height: 2.75 in, 7 cm Length: 9 in, 23 cm	
NON-LINEARITY ± 0.25% (IEC 60731 requirement: ± 1.0%)									

CONFORMITY	C € 93/42/EEC					
ZERO DRIFT	$< \pm 0.001 \text{nA}$					
ZERO SHIFT	$<\pm$ 0.001 nA					
DISPLAY	LCD, 2 x 20 with 5/16" characters					
INPUT	BNC two lug, triaxial connector					
BIAS VOLTAGE	Nominal ± 450 volt bias					
5 USER SETTINGS:	- 450, - 300, - 150, 0; 150, 300, 450 (VDC)					
ACCURACY:	± 0.3 volt					
POWER	100-240 VAC, 0.5 A max, 50/60 Hz input to external power supply, 9 VDC, 1.7 A power supply output to electrometer input, UL/TUL listed power supply; internal battery: 8 hrs per charge					
ZEROING	Automatic zero function, user activated					
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					

Specifications subject to change without notice.



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