

Model 1100/1150 Dosimetry Electrometer



Specifications

Accuracy: $\pm 0.1\%$ of reading, +1 digit
 Linearity: $\pm 0.1\%$, +1 digit or precision of reading, whichever is greater
 Timer: (1150 only) can be preset for 50, 100 or 200 seconds
 Leakage: $< 5 \times 10^{-14}$ A
 Long Term Stability: $< \pm 0.5\%$ per year all scales except 20,000nC scale which is $\pm 1.5\%$ per year
 Display: 4-1/2 digit LCD
 Temp. stability: 20ppm/ $^{\circ}$ C
 Warm-up time: 15 minutes
 Input: triaxial BNC (TNC optional)
 Output: analog, 2V corresponds to full scale
 Bias: internal electronic bias supply 300V, -50%, -100%, off, +100%, +50%, selectable on back panel. Bias voltage may be read on display. 400V bias potential also available.
 Power: internal rechargeable 12V sealed lead acid battery, voltage maybe read on display. Low battery indicator on front panel. 120VAC UL listed adapter provided.
 Dimensions: 21cm wide x 22.9cm deep x 8.25cm high (8.25 in x 9 in x 3.25 in)
 Weight: 1.7 kg (3.75 lb)

Units	Low	High	Application
nA, nC	0.001-19.999	0.01-199.99	Teletherapy
20,000nC	none	1-19999	HDR

The CNMC Models 1100 and 1150 are high quality, compact and affordable dosimetry electrometers that will meet the needs of most therapy applications, including brachytherapy. A unique, simple design eliminates many of the current leakage problems associated with complicated electrometer designs.

Model 1100 and 1150 electrometers meet or exceed the requirements of the AAPM ADCLs and have features found in electrometers costing far more.

The pricing of the 1100 is such that, when packaged with a Farmer chamber, it compares favorably with the cost of a ^{90}Sr constancy check source. The added benefit of having two dosimetry systems for intercomparison purposes is the convenience of having a back-up system.

Standard range setup for either model suits most teletherapy applications, including HDR brachytherapy. Standard units are nC and nA.

The Model 1150 includes a built-in timer circuit for accumulation of charge vs. time. Timing periods of 50, 100 and 200 seconds have been chosen for convenient conversion of nC to nA.

The bias supply is electronic, and the unit is powered by an internal rechargeable battery. The standard input connector is triaxial BNC, but TNC is available by request.

Features:

- ▶ A superb performer - Best Value
- ▶ 4-1/2 digit LCD display
- ▶ Internal electronic bias: full, half & reverse polarity
- ▶ Powered by a rechargeable battery
- ▶ Extended 20,000nC range for HDR
- ▶ Internal timer (1150 only)



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