



*The most reliable instrument in the industry – now a DIGITAL dosimeter!*

**Specifications**

- Display: ..... LCD, 4-1/2 digit, 0.48 in high
- Range:

  - Charge: ..... 0.0001 x 10<sup>-10</sup> to 11.000 x 10<sup>-12</sup> C
  - Current: ..... 0.0001 x 10<sup>-11</sup> to 12.000 x 10<sup>-1</sup> A

- Overrange: ..... indicated by 1 followed by blanks
- Accuracy: ..... ±0.1% of reading + 1 digit
- Linearity: ..... ±0.1% + 1 digit or precision of reading
- Leakage: ..... <5 x 10<sup>-15</sup> A
- Calibration: ..... coulomb scale to ±0.1%
- Input impedance: ..... >1 x 10<sup>14</sup> ohm
- Temp. coefficient: ..... 0.2%/°C
- Bias: ..... internal electronic bias supply; -150 V, -300 V, OFF, +300 V, +150 V, selectable on front panel, bias voltage may be read on display
- External bias: ..... binding posts for banana plugs
- Input: ..... triax BNC with cap & chain (TNC optional)
- Power: ..... rechargeable 12 V 1.2 AH gel-cell battery, voltage may be read on display, low batt. indicator, 120 VAC UL listed wall-mount charger provided (240 VAC optional)
- Current drain: ..... 57 mA
- Dimensions: ..... 17.5 cm wide x 27.5 cm high x 29 cm deep (7 in x 10.75 in x 11.5 in)
- Weight: ..... 6.6 kg (14.5 lb)

## Model CNMC K602 Modified Keithley 602 Electrometer

The Keithley Model 602 is a high quality, general purpose electrometer capable of measuring low currents, low voltage levels and high resistances. It is best known in the industry for its stability and extremely low input offset current on the order of less than 5 fA.

The engineering staff at CNMC, who are thoroughly familiar with the needs of the practicing clinical medical physics professionals, modify this fine electrometer to make it expressly suited for medical dosimetry applications.

CNMC will economically modify your Keithley Model 602 and back up the modification with a 12-month warranty.

Range	Current		Charge	
	2 V	10 V	2 V	10 V
10 <sup>-11</sup>	19.999 pA	120.00 pA	-----	-----
10 <sup>-10</sup>	199.99 pA	1.2000 nA	199.99 pC	1.2000 nC
10 <sup>-9</sup>	1.9999 nA	12.000 nA	1.9999 nC	12.000 nC
10 <sup>-8</sup>	19.999 nA	120.00 nA	19.999 nC	120.00 nC*
10 <sup>-7</sup>	199.99 nA	1.2000 A	199.99 nC	1200.0 nC
10 <sup>-6</sup>	1.9999 A	12.000 A	-----	-----
10 <sup>-5</sup>	19.999 A	120.000 A	-----	-----
10 <sup>-4</sup>	199.99 A	1.2000 mA	-----	-----
10 <sup>-3</sup>	1.9999 mA	12.000 mA	-----	-----
10 <sup>-2</sup>	19.999 mA	120.00 mA	-----	-----
10 <sup>-1</sup>	199.99 mA	1200.0 mA	-----	-----

\*normal range for use with a 0.6 cc Farmer-type ion chamber

**Modifications include:**

- ▶ Installation of a 150/300 Volt electronic bias supply with reversible polarity
- ▶ Replacement of the analog meter with a 4-1/2 digit LCD
- ▶ Installation of a single 12 V rechargeable battery with wall-mount UL listed transformer/charger
- ▶ Installation of circuitry to allow bias voltage and battery condition to be read on the display
- ▶ Installation of a metal connector dust cap with retaining chain
- ▶ Color-coding of switch positions for ease of use
- ▶ Coulomb scale calibration to ±0.1% and complete QA checkout at CNMC