

2 MODEL 501 DESCRIPTION

2.1 Model 501 Specifications

MICROAMPS

| | |
|------------------------------|---------------------------------------|
| Range | 0 — 199.9, 199.9 — 1999 |
| Accuracy | $\pm 1\%$ of full scale |
| Input Impedance | 1000 ohms $\pm 1\%$ |
| Frequency Response | 1000 Hz, DC, per AAMI curve, true RMS |
| Amplifier Frequency Response | 100 kHz, DC, (1 MHz, DC, available) |

MILLIVOLTS

| | |
|------------------------------|-------------------------------------|
| Range | 0 — 199.9, 199.9 — 1999 |
| Accuracy | $\pm 1\%$ of full scale |
| Input Impedance | 1000 ohms $\pm 1\%$ |
| Frequency Response | 1000 Hz, DC, per AAMI |
| Amplifier Frequency Response | 100 kHz, DC, (1 MHz, DC, available) |

RESISTANCE

| | |
|----------------|--|
| Range | 0 — 19.99 ohms $\pm 1\%$ of full scale with 0.01 ohm resolution. Four-point resistance measurement technique. No zeroing required. |
| Output Current | Maximum output current into 1000 ohms: 300 μ A (test current is 10 mA) |

CALIBRATION

Traceable to the National Bureau of Standards

| | | |
|--------------------------------------|------------------------------|---|
| ONE BUTTON SELF_TEST FEATURES | | Low battery indicator |
| | | Calibration check |
| | | Digit check |
| DISPLAY | | Large 0.43" (1.1 cm) LED readout |
| OUTLET CHECK | | Push button, 3-neon light readout indicating power, polarity, and ground integrity. |
| CURRENT CARRYING ABILITY | | 15 A, 120 V; 6-foot heavy-duty cord, hospital-grade plug and receptacle (other options available, consult Bio-Tek Instruments) |
| ADDITIONAL FEATURES | | Autoranging |
| | | Ground-to-neutral loop impedance |
| | | ECG lead leakage |
| | | ECG isolation test |
| READING RATE | | 2 readings/second |
| POLARITY | | Reads true RMS either polarity, or AC with no polarity indication. |
| ENVIRONMENT | | |
| | Operating Temperature | 0° to 40° C (30° to 104° F) |
| | Storage Temperature | -25° to 50° C (-13° to 122 ° F) |
| | Humidity | Up to 90% relative humidity |
| RECHARGEABLE BATTERIES | | 8-hour operation per charge; 12-hour charge time; 8 subC size, nickel-cadmium batteries in 2 packs of 4 batteries each. (Refer to Section 3.1 for precautions.) |

ACCESSORIES

Large probe, clamp, ground adapter,
2 5'-leads, an instruction manual,
a short-form manual, and spare fuses.

DIMENSIONS

| | |
|--------|---------------|
| Width | 8.5" (216 mm) |
| Height | 4.5" (114 mm) |
| Depth | 4.5" (114 mm) |

WEIGHT

7 lbs (3.18 kg).