

SPECIFICATIONS

OUTPUT:

D.C. Current: 10^{-7} ampere full range to 10^{-1} ampere in seven decade ranges, 3-digit in-line readout.

Voltage: 100 volts maximum. Compliance limit continuously variable from 10 to 100 volts.

Polarity: Positive or negative.

Floating: ± 500 volts maximum off chassis ground, less than 5 ppm of full range change in output current per volt.

RESOLUTION: Three significant figures from 10^{-7} to 10^{-1} ampere. "Trim" potentiometer permits 0.02% of full range or better resolution.

ACCURACY: $\pm 0.5\%$ of reading, $\pm 0.05\%$ of full range.

STABILITY: $\pm 0.02\%$ of reading, $\pm 0.005\%$ of full range on the 10^{-1} to 10^{-6} ampere range, ($\pm 0.1\%$ of reading $\pm 0.02\%$ of range on the 10^{-7} ampere range) the first hour or in subsequent 8-hour periods after a 1-hour warm-up and at reasonably constant ambient temperature.

NOISE: Less than 0.01% rms of full range above 5 Hz.

LOAD REGULATION: $\pm 0.005\%$ of full range from no load to full load on the 10^{-1} to 10^{-6} ampere range, $\pm 0.05\%$ on the 10^{-7} ampere range (with FILTER "OFF").

LINE REGULATION: $\pm 0.005\%$ of full range for 10% change in line voltage.

OVERLOAD PROTECTION: Voltage limited to compliance voltage setting of polarity selected. Automatic recovery from overload.

MODULATION: Transformer input permits modulation of current from 50 Hz to 500 Hz. Input Z approximately 500 ohms.

FILTER: For operation with inductive loads up to 100 millihenries having greater than 10^{-6} L/R ratio. Limits shunt output impedance to 1 microfarad shunted by greater than 10^{10} ohms.

ENVIRONMENT: 50% relative humidity limit at 25°C.

CONNECTORS: Output (front and rear panels): BNC

POWER: 105-125, 210-250 volts (switch selected), 50-60 Hz; 25 watts.

DIMENSIONS, WEIGHT: 5½" high x 8¾" wide x 10" deep; net weight, 8 pounds.

