Table 1-1. Specifications.

DC VOLTMETER

Voltage Ranges: ± 15 mV to ± 1500 V full scale in 15, 50 sequence (11 ranges).

Accuracy: ± 2% of full scale on any range.

Input Resistance: 100 MΩ ± 1% of 500 mV range and above. 10 MΩ ± 3% on 15 mV, 50 mV, and 150 mV ranges.

DC AMMETER

Current Ranges: ± 1.5 μA to ± 150 mA full scale in 1.5, 5 sequence (11 ranges).

Accuracy: ± 3% of full scale on any range.

Input Resistance: Decreasing from 9 kΩ on 1.5 μA scale to approximately 0.3 Ω on the 150 mA scale.

Special Current Ranges: ± 1.5, ± 5, ± 15 nanoamps may be measured on the 15, 50, and 150 millivolt ranges using the voltmeter probe, with ± 5% accuracy and 10 mΩ input resistance.

OHMMETER

Resistance Range: Resistance from 10 Ω to 10 MΩ center scale (7 ranges).

Accuracy: Zero to midscale: ± 5% of reading or ± 2% of midscale, whichever is greater.
± 7% from midscale to scale value of 2.
± 8% from scale value of 2 to 3.
± 9% from scale value of 3 to 5.
± 10% from scale value of 5 to 10.

AMPLIFIER

Voltage Gain: 100 maximum.

AC Rejection: 3 dB at 1/2 Hz; approximately 66 dB at 50 Hz and higher frequencies for signals less than 1600 V peak or 30 times full scale, whichever is smaller.

Isolation: Impedance between common and chassis is > 10 MΩ in parallel with 0.1 μF. Common may be floated up to 400 V dc above chassis for dc and resistance measurements.

Output: Proportional to meter indication; 1.5 V dc at full scale, maximum current, 1 mA.

Output Impedance: Less than 3 Ω at dc.

Noise: Less than 0.5% of full scale on any range (p-p).

DC Drift: Less than 0.5% of full scale/year at constant temperature. Less than 0.02% of full scale/°C.

Overload Recovery: Recover from 100:1 overload in < 3 sec.

AC VOLTMETER

Ranges: 0.5 V full scale to 300 V in 0.5, 1.5, 5 sequence (7 ranges).

Accuracy: ± 3% of full scale at 400 Hz for sinusoidal voltages from 0.5 to 300 V rms. The AC Probe responds to the positive peak-above-average value of the applied signal.

Frequency Response: ± 2% from 100 Hz to 50 MHz (400 Hz ref.), 0% to -4% from 50 MHz to 100 MHz ± 10% from 20 Hz to 100 Hz and ± 1.5 dB from 100 MHz to 700 MHz.

Frequency Range: 20 Hz to 700 MHz.

Input Impedance: Input capacity 1.5 pF, input resistance > 10 MΩ at low frequencies. At high frequencies impedance drops off due to dielectric loss.

Safety: The probe body is grounded to chassis in the AC Function for safety. All ac measurements are referenced to chassis ground.

Meter: Individually calibrated taut band meter. Responds to positive peak-above-average. Calibrated in rms volts for sine wave input.

GENERAL

Maximum Input: (see Overload Recovery)
DC: 100 V on 15, 50 and 150 mV ranges; 500 V on 0.5 to 15 V ranges; 1600 V on higher ranges.
AC: 100 times full scale or 450 V peak, whichever is less.

Power: 115 or 230 V ± 10%. 48 to 440 Hz, 13 watts (20 watts with 11036A AC Probe).

Dimensions: 6 1/2 in. high (16.5 cm); 5 1/8 in. wide (13.01 cm); 11 in. deep (27.9 cm) behind panel. Fits 5060-0797 Rack Adapter and 1050 series combining cases.

Weight:
Net: 8 lbs. (4.0 kg)
Shipping: approximately 15 lbs. (6.35 kg)

Accessories Furnished: Detachable power cord, NEMA plug; -hp- Model 11036A AC Probe.

Option 02: -hp- Model 410C less AC Probe.