SPECIFICATIONS

AS A VOLTMETER:

RANGE: .001V full scale to 10V in nine 1X and 3X ranges.

ACCURACY: ±1% of full scale on all ranges exclusive of noise and drift. ZERO DRIFT: Less than 1mV per 24 hours, less than 150μV per °C.

METER NOISE: ±25µV maximum with input shorted on most sensitive

INPUT IMPEDANCE: Greater than 10¹⁴Ω shunted by 20pF. Input resistance may also be selected in decade steps from 10 to $10^{11}\Omega$.

AS AN AMMETER:

RANGE: 10⁻¹⁴A full scale to 0.3A in twenty-eight 1X and 3X ranges. ACCURACY: ±2% of full scale on 0.3 to 10⁻¹¹A ranges using the smallest available multiplier setting; $\pm 4\%$ of full scale on 3 \times 10⁻¹² to 10⁻¹⁴A

METER NOISE: Less than $\pm 3 \times 10^{-15} A$. OFFSET CURRENT: Less than 5 × 10⁻¹⁵A.

AS AN OHMMETER:

RANGE: 100Ω , full scale to $10^{13}\Omega$ in twenty-three linear 1X and 3X ranges. **ACCURACY**: $\pm 3\%$ of full scale on 100 to $10^9\Omega$ ranges using the largest available multiplier setting; $\pm 5\%$ of full scale on 3 $imes 10^9$ to $10^{13}\Omega$ ranges.

AS AN COULOMBMETER:

RANGE: 10-13C full scale to 10-6C in fifteen 1X and 3X ranges.

ACCURACY: ±5% of full scale on all ranges. Drift due to offset current does not exceed 5×10^{-15} C per second.

AS AN AMPLIFIER:

INPUT IMPEDANCE: Greater than 10¹⁴Ω shunted by 20pF. Input resistance may also be selected in decade steps from 10 to $10^{11}\Omega$.

OUTPUTS: Unity-gain output and either voltage or current recorder output. UNITY-GAIN OUTPUT: At DC, output is equal to input within 10 ppm, exclusive of noise and drift, for output currents of 100µA or less. Up to 1mA may be drawn for input voltages of 10V or less. Output polarity is same as input polarity.

VOLTAGE RECORDER OUTPUT: ±1V for full-scale input. Internal resistance is 910Ω. Output polarity is opposite input polarity.

Gain: 0.1, 0.33, etc., to 1000.

Frequency Response (within 3db): DC to 40kHz at a gain of 1 and lower, decreasing to DC to 100Hz at maximum gain. Full output response limited to 3kHz on any gain.

Noise: Less than 3% rms of full scale at gain of 1000, decreasing to less than 0.5% at gains below 10.

CURRENT RECORDER OUTPUT: ± 1mA for full-scale input, variable $\pm 5\%$ with 1400 Ω recorders.

GENERAL:

ISOLATION: Circuit ground to chassis ground: Greater than $10^9\Omega$ shunted by .0015 μ F. Circuit ground may be floated up to \pm 1500V with respect to

Polarity: Meter switch selects left-zero (positive or negative) or center-zero scales. Meter switch does not reverse polarity of outputs.

CONNECTORS: Input: Teflon-insulated triaxial Bendix 33050-2. Low: Binding post. Voltage or current output: Amphenol 80-PC2F. Unity-gain output, chassis ground: Binding posts.

BATTERY CHECK: Condition of all batteries may be checked with front panel controls.

BATTERIES: Six 2N6 (or 246, VS305, NEDA 1602); one RM-1W, 1000 hours battery life.

DIMENSIONS, WEIGHT: Overall bench size 10% in. high × 7 in. wide × 11 ½ in. deep (275 \times 175 \times 290mm). Net weight, 13 pounds (5.7kg).

ACCESSORIES SUPPLIED: Model 6011 Input Cable: 30" triaxial cable with triaxial connector and 3 alligator clips. Mating output connector.