

SPECIFICATIONS

AS A VOLTMETER:

RANGE: .01 volt full scale to 10 volts in seven 1x and 3x ranges.

ACCURACY: $\pm 2\%$ of full scale on all ranges exclusive of noise and drift.

ZERO DRIFT: Less than 2 millivolts per 24 hours, less than 200 microvolts per $^{\circ}\text{C}$, after 30-minute warm-up.

INPUT IMPEDANCE: Greater than 10^{14} ohms shunted by 20 picofarads. Input resistance may also be selected in decade steps from 10 to 10^{11} ohms.

AS AN AMMETER:

RANGE: 10^{-13} ampere full scale to 0.3 ampere in twenty-six 1x and 3x ranges.

ACCURACY: $\pm 3\%$ of full scale on 0.3 to 10^{-10} ampere ranges using the smallest available multiplier setting; $\pm 5\%$ of full scale on 3×10^{-11} to 10^{-13} ampere ranges.

METER NOISE: Less than $\pm 10^{-14}$ ampere.

OFFSET CURRENT: Less than 2×10^{-14} ampere

AS AN OHMMETER:

RANGE: 1000 ohms full scale to 10^{13} ohms in twenty-one linear 1x and 3x ranges.

ACCURACY: $\pm 4\%$ of full scale on 1000 to 10^8 ohm ranges using the largest available multiplier setting; $\pm 5\%$ of full scale on 3×10^8 to 10^{13} ohm ranges.

AS A COULOMBMETER:

RANGE: 10^{-12} coulomb full scale to 10^{-6} coulomb in thirteen 1x and 3x ranges.

ACCURACY: $\pm 5\%$ of full scale on all ranges. Drift due to offset current does not exceed 2×10^{-14} coulomb per second.

AS AN AMPLIFIER:

INPUT IMPEDANCE: Greater than 10^{14} ohms shunted by 20 picofarads. Input resistance may also be selected in decade steps from 10 to 10^{11} ohms.

OUTPUTS: Unity-gain output and either voltage or current recorder output.

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

Gain: 0.1, 0.33, etc., to 100.

Frequency Response (within 3 db): dc to 20 kHz at a gain of 1 and decreasing to 1 kHz at maximum gain.

Full output response limited to 1 kHz.

Noise: Less than 10 millivolts rms referred to output.

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

UNITY-GAIN OUTPUT: At dc, output is equal to input within 25 ppm, exclusive of noise and drift. Up to 0.1 milliampere may be drawn. Output polarity is the same as input polarity.

GENERAL:

POLARITY: Meter Switch selects left-zero (positive or negative) or center-zero scales. Output polarity is not reversed.

CONNECTORS: Input: Teflon-insulated UHF Type. Outputs: Barrier Strip.

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

BATTERIES: Four 2N6 (or 246, VS305, NEDA 1602); one RM-1W, 700-hour battery life

DIMENSIONS, WEIGHT: 10-1/4" high x 6-1/2" wide x 6-1/2" deep; net weight, 7-1/4 pounds.

ACCESSORIES SUPPLIED: Mating input connector.

