

panel RECORDER output connector low terminal. The GUARD and GROUND are interconnected at the front panel by a ground-strap for most measurements. When not so connected, the GUARD will be at Test Voltage potential relative to GROUND.

1-8. INSTRUMENT IDENTIFICATION

1-9. Hewlett-Packard uses a two-section ten-character (0000A00000) or eight-character (000-00000) serial number. The first three or four digits (serial prefix) identify a series of instrument, the last five digits identify a particular instrument in that series. A letter placed between the two sections identifies the country where the instrument was manufactured. The serial number appears on a plate located on the rear panel. All correspondence with Hewlett-Packard Sales/Service Offices with regard to an instrument

should refer to the complete serial number.

1-10. MANUAL CHANGES.

1-11. This manual provides operating and service information for the HP Model 4329A High Resistance Meter. Information in this manual applies directly to instruments(as manufactured) with serial numbers prefixed by the four digits indicated on the title page. If the serial prefix of the instrument is different from that on the title page, a "Manual Change" sheet supplied will describe changes which will adapt this manual to provide correct coverage. Technical correction (if any) to this manual, due to known errors in print, are called Errata and are shown on the change sheet. For information on manual coverage of any HP instrument, contact the nearest HP Sales/Service Office (addresses are listed at the rear of this manual.)

Table 1-1. Specifications

Resistance Range: 500kΩ to 2 x 10¹⁶ Ω

Resistance Accuracy:

±10% of reading except on R_{MAX} range after initial and full-scale calibration. Accuracy depends on the deflection angle of the meter. At low resistance end of each scale, typical

accuracy is about ±3%; near center scale about ±5%. Above effective upper limits (see table below), accuracy is not specified. On all voltage ranges, if multiplier is set to R_{MAX}, add 3%.

Test Voltage	10V ±3%	25V ±3%	50V ±3%	100V ±3%	250V ±3%	500V ±3%	1000V ±3%
Available Resistance Readings	5 x 10 ⁵ Ω to 2 x 10 ¹⁴ Ω	1.25 x 10 ⁶ Ω to 5 x 10 ¹⁴ Ω	2.5 x 10 ⁶ Ω to 1 x 10 ¹⁵ Ω	5 x 10 ⁶ Ω to 2 x 10 ¹⁵ Ω	1.25 x 10 ⁷ Ω to 5 x 10 ¹⁵ Ω	2.5 x 10 ⁷ Ω to 1 x 10 ¹⁶ Ω	5 x 10 ⁷ Ω to 2 x 10 ¹⁶ Ω
Meter Scale	0.5 to 20	0.125 to 5	0.25 to 10	0.5 to 20	0.125 to 5	0.25 to 10	0.5 to 20
Effective Upper Limit	5	1.25	2.5	5	1.25	2.5	5

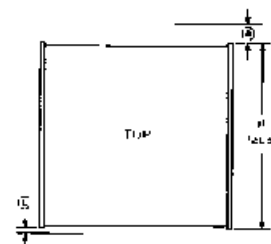
Current Range: 0.05pA to 20μA.

Current Accuracy

±5% using ideal current source of infinite impedance; for finite source impedances, accuracy is determined by the range resistor which sets meter input impedance. These vary from 10⁴ Ω to 10¹¹ Ω, depending on the range selected. This additional error can be large, and should be calculated if the 4329A's current measurement capability is to be utilized.

Dimensions:

NOTE
DIMENSIONS IN INCHES AND (MILLIMETERS)
(A) FOR TOTAL LENGTH INCLUDING FEET AND 25-22 SEC.
(B) FOR HEIGHT INCLUDING FEET AND 7-16 IN.
(C) FOR TOTAL LENGTH INCLUDING FEET AND POLYMER STRIPPED ADD .115"



Recorder output: 0 to 100mVdc, proportional to meter deflection, output impedance 1kΩ.

Power: 115, 230V, ±10%. 50 or 60Hz, 3W.

Weight: 7.7lbs. (3.5kg)

Accessories Furnished:

16117A Low Noise Test Leads, composed of insulated BNC to Alligator clip lead, and banana plug to Alligator clip lead. On BNC lead, outer conductor comprised guard shield. Guard isolated from low resistance alligator clip sleeve.

