

HP 437B, 70100A, and E1416A Specifications

Frequency range: 100 kHz to 50 GHz, sensor dependent.

Power range: -70 to +44 dBm (100 pW to 25 W), sensor dependent.

Power sensors: Compatible with all HP 8480 series Power Sensors.

Dynamic range: 50 dB in 10 dB steps.

Display units: Absolute: Watts, dBm; relative: percent, dB.

Resolution: Selectable resolution of 0.1, 0.01, and 0.001 dB in logarithmic mode; or 1%, 0.1%, and 0.01% of full scale in linear mode.

Accuracy

Instrumentation: ± 0.02 dB or $\pm 0.5\%$.

In REL mode: ± 0.02 dB or $\pm 0.5\%$ within measurement range; ± 0.04 dB or 1% outside measurement range.

Zero set: $\pm 0.5\%$ of full scale on most sensitive range.

Power Reference

Power output: 1.00 mW, Factory set to $\pm 0.7\%$ traceable to US National Institute of Standards and Technology.

Accuracy: $\pm 1.2\%$ worst case ($\pm 0.9\%$ RSS) for 1 year.

General (HP 437B only)

EMI: Radiated and Conducted Emissions and Radiated and Conducted Susceptibility are within the requirements of RE02, CE03, RS01/03 and CS01/03 called out in MIL-STD-461C, and within the requirements of VDE 0871 and CISPR Publication 11.

Rear-panel output: Analog 0-1 volt without digital filtering or Cal Factor correction, 1 k Ω output impedance, BNC connector.

Line voltage: 100 and 120 Vac, +5%-10%, 48-66 Hz, 360-440 Hz; 220 and 240 Vac, +5% to 10%, 48 to 66 Hz.

Power requirement: 8 watts maximum (10 VA max).

Weight: Net 2.6 kg (5.9 lb); shipping 4.5 kg (10 lb).

HP-IB codes: SH1, AH1, T5, TE0, L4, LE0, SR1, RL1, PP1, DC1, DT1, C0.

Dimensions: 88 mm H \times 212 mm W \times 273 mm D (3.46 in \times 8.35 in \times 10.75 in).