Table 1-1. Specifications

SPECIFICATIONS

System Accuracy:
Instrumentation Uncertainty: ±1% of full scale on all ranges (0 to 55 degrees C).

Zero Carryover: ±0.5% of full scale when zeroed on the most sensitive range.

Reference Oscillator Accuracy:
±0.70% (1 mW at 50 MHz, traceable to National Bureau of Standards).

Power Range: 55 dB with 10 full-scale ranges of 3, 10, 30, 100, and 300 μW; 1, 3, 10, 30, and 100 mW; also calibrated in dB from −25 dBm to +20 dBm full scale in 5 dB steps.

Reference Oscillator: Internal oscillator with Type N female connector on front panel or rear panel (Option 003 only). Power output 1.00 mW ± 0.70% at 50 MHz.

Stability: ±0.02%/°C to 55°C).

Noise and Drift: Typically 1.5% of full-scale peak on 3 μW range, less on higher ranges (at constant temperature).

Response Time: 2 seconds on 3 μW range, 0.75 second on 10 μW range, 0.40 second on 30μW range, and 100 milliseconds on all orhter ranges. (Typical, time constant measured at recorder output).

Cal Factor: 16-position switch normalizes meter reading to account for Calibration Factor or Effective Efficiency. Range is 100% to 85% in 1% steps. 100% position corresponds to Calibration Factor at 50 MHz.

Cal Adj: Front panel adjustment provides capability to adjust gain of meter to match power sensor in use.

Recorder Output: Proportional to indicated power with 1 volt corresponding to full scale; 1 kΩ output impedance, BNC connector.

RF Blanking Output: Provides a contact closure to ground when auto-zero mode is engaged.

Power: 100, 120, 220, or 240 Vac +5%, −10%, 48 to 440 Hz, less than 10 VA.

Weight: Net, 5 lb, 12 oz (2,6 kg).

1-16. OPTIONS

1-17. Battery

1-18. The Model 435A, Option 001 Power Meter is supplied with a rechargeable battery that provides up to 16 hours continuous operation from a full charge.

1-19. If the 435A was purchased without the battery option, it may be ordered in kit form under HP part number 00435-60012. The kit includes the battery, the battery clamp, a 6-32 x 1/2-inch pan head machine screw and installation instructions.

1-20. Input-Output Options

1-21. Option 002. A rear panel input connector is connected in parallel with the front panel input connector.

1-22. Option 003. A rear panel input connector replaces the standard front panel input connector; a rear panel POWER REF OUTPUT connector replaces the standard front panel connector.

1-23. Cable Options

1-24. A 5-foot Power Sensor cable is normally supplied. The 5-foot cable is omitted with any cable option. The option and cable length are shown in the table.

Option	Cable Length (feet)
009	10
010	20
011	50
012	100
013	200