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- Ideal for ATE applications
- Dual power sensors
- Innovative ratio & difference measurements



HP 438A

DESIGNED FOR HP-IB SYSTEMS

HP 438A Power Meter

The HP 438A Power Meter is a dual-channel power meter designed specifically for ATE systems. The compact front panel saves critical rack space, while the dual channel design allows simple and accurate measurements of the ratio and difference of power levels from two separate sensors. This meter is compatible with the HP 8480 Series of thermocouple and diode power sensors.

HP-IB capability is standard on the HP 438A. For U.S. Air Force Modular Automatic Test Equipment (MATE) system application, Option 700 provides the HP 438A with the internal capability to be controlled by the MATE Control Interface Intermediate Language (CIIL).

Specifications

Frequency Range: 100 kHz to 110 GHz, sensor dependent
Power Range: −70 to +44 dBm (100 pW to 25W), sensor dependent. Uses HP 8480 Series power sensors
Instrumentation Accuracy
Single channel: ±0.5% (watt mode) or ±0.02 dB (dBm mode)
Dual channel: ±1% (watt mode) or ±0.04 dB (dBm mode)
Zeroing: Automatic, ±0.5% of full scale on most sensitive range
Power Reference
Power output: 1.00 mW. Factory set to ±0.7%, traceable to the U.S. National Institute Standards and Technology
Accuracy: ±1.2% worst case (±0.9% rss) for 1 year
Connector: front panel Type-N female (also rear panel Opt 002)

Supplemental Characteristics

Recorder Output: Linearly proportional to indicated power in watts. One volt corresponds to full scale; 1 KΩ output impedance. BNC rear panel female connector
Line Voltage: 100, 120, 220, or 240 Vac +5% −10%. 100 and 120 volts, 48 to 66 Hz and 300 to 440Hz. 220 and 240 volts, 48 to 66 Hz only
Power Requirements: 65 VA, 35 watts, maximum
HP-IB Interface Codes: SH1, AH1, T5, TE0, L4, LE0, SR1, RL1, PP1, DC1, DT1, C0
Weight: Net, 5.9 kg (13 lb); shipping, 9.1 kg (20 lb)
Size: 89 mm H × 213 mm W × 418 mm D (3.5 in × 8.4 in × 16.8 in)

Accessories

Furnished: HP 11730A, 2 each, 1.5-meter (5-ft) power sensor cables. Power cable, 1 each, 2.4 meters (7.5 ft). Mains plug matches destination requirements.
Available: To select and substitute nonstandard lengths for power sensor cables, see page 178.

Ordering Information

HP 438A Dual Channel Power Meter
Opt 002 Rear Panel Sensor Connector (in parallel with front panel) and additional reference oscillator with rear panel output
Opt 700 Internal MATE Programming

[1]Specifications for within range meas

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