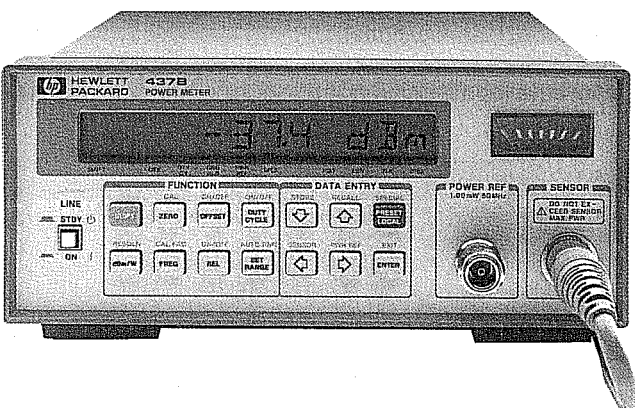


POWER METERS

Power Meter

HP 437B, 70100A, E1416A

211



HP 437B Power Meter



HP 437B Power Meter

The HP 437B is a low-cost, high-performance, single-channel, programmable, average power meter compatible with the HP 8480 family of thermocouple and diode power sensors. Depending on which power sensor is used, the HP 437B can measure from -70 dBm (100 pW) to +44 dBm (25 W) at frequencies from 100 KHz to 50 GHz.

Designed for ATE systems and demanding benchtop measurements, the HP 437B Power Meter makes fast, accurate, and reliable average power measurements. Only 3 inches high and half rack wide, the HP 437B minimizes the use of critical rack space in ATE systems. The advanced plastics technology used in the HP 437B cabinet combines the light weight of plastic with the shielding effectiveness of metal, making the HP 437B the only power meter to meet MIL-STD-461C EMI specifications.

A modern and flexible feature set makes this meter easy to use in any application:

- Automatic calibration and zeroing.
- Frequency entry instead of Cal Factor.
- Ten pre-loaded sensor Cal Factor versus frequency tables.
- Selectable resolution to 0.001 dB.
- Offset entry in dB.
- Duty cycle entry for a convenient peak power representation of the measured average power.
- Ten store/recall registers.
- HP-IB is standard.
- Analog meter is a standard feature.

With a measurement speed twice as fast as that of the industry-standard HP 436A, powerful programming capability, state-of-the-art accuracy, and exceptional reliability, the HP 437B lets you measure your test signal with speed, precision, and confidence.

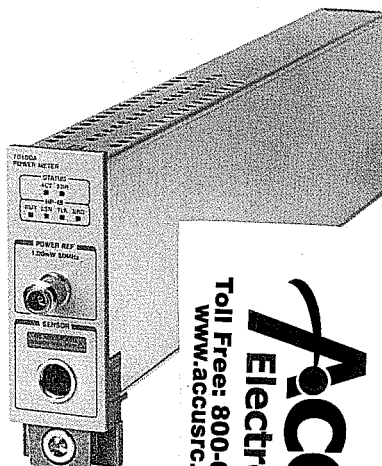
HP 70100A and E1416A

MMS and VXI Power Meters

The HP 70100A is a full-feature single-channel power meter module for the Modular Measurement System (see page 102). It has all the capability of the HP 437B Power Meter in a 1/8th rack-width module. The HP 70100A features the same modern and flexible feature set as the HP 437B, the same state-of-the-art accuracy, and is also fully compatible with the HP 8480 series of power sensors. The HP E1416A power meter is a VXI version of the HP 70100A. For information on the HP E1416A, refer to page 93.

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.



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Your Source for Quality Pre-Owned Electronic Test Equipment

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Compliments of



HP E1416A VXI Power Meter

Accuracy

Instrumentation In REL mode: ±0.04 dB or 1%
Zero set: ±0.5%

Power Reference

Power output: National Institute of Standards and Technology Accuracy: ±1.2%

General (HP 437B)

EMI: Radiated and Conducted Susceptibility: RS01/03 and CS requirements of MIL-STD-461C
Rear-panel output Factor correction: 100 to 1000 Hz
Line voltage: 100 and 240 Vac, +5% to 10%, 48 to 60 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 × 212 mm W × 273 mm D (3.46 in × 8.35 in × 10.75 in).

Accessories

Furnished: HP 11730A, 1.5 m (5 ft) cable for power sensors; 2.4m (7.5 ft) power cable. Mains plug shipped to match destination requirements.

Available:

To select or substitute nonstandard lengths for power sensor cable, see page 212. To rackmount one HP 437B, order part number 5060-0173. To rackmount two HP 437B power meters, order part number 5060-0174.

Ordering Information

HP 437B Power Meter.

Opt 002 Supplies a parallel rear-panel sensor input. +\$75

Opt 003 Supplies a parallel rear-panel sensor input. +\$75

and moves reference oscillator to rear-panel. - \$75

Opt 004 Delete the HP 11730A sensor cable. +\$25

Opt 401 Provides side-carrying handle and standoff feet. +\$25

Opt 915 Service manual. +\$25

Opt 916 Extra operating manual (00437-90015). +\$25

Opt W30 Two additional years of return-to-HP warranty. +\$65

HP 70100A Power Meter Module.

Opt 003 Moves reference oscillator from front to rear panel. \$0

Opt 004 Delete the HP 11730A Power Sensor Cable. - \$75

Opt 005 Delete reference oscillator. - \$250

Opt W30 Extended repair service. See page 671. + \$70

☎ For off-the-shelf shipment, call 800-452-4844.

measurement range;

range.

0.7% traceable to US NIST.

digital filtering or Cal IEC connector. 56 Hz, 360-440 Hz; 220

and Radiated and Components of RE02, CE03, -461C, and within the 11. digital filtering or Cal IEC connector. 56 Hz, 360-440 Hz; 220

Price

\$2,625

+\$75

+\$75

- \$75

+\$25

+\$25

+\$25

+\$65

\$3,080

\$0

- \$75

- \$250

+\$70