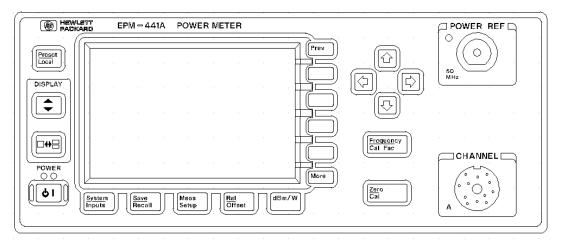
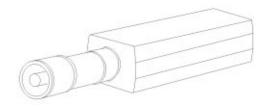


HP EPM Power Meters HP ECP-series Power Sensors

Configuration Guide

HP EPM-441A Power Meter (single channel) (order number E4418A)
HP EPM-442A Power Meter (dual channel) (order number E4419A)
HP ECP-E18A Power Sensor (10 MHz to 18 GHz) (order number E4412A)
HP ECP-E26A Power Sensor (50 MHz to 26.5 GHz) (order number E4413A)





Introduction

This configuration guide describes standard configurations, options and compatible accessories. For full specifications, see EPM-441A Power Meter, EPM-442A Power Meter, ECP-E18A Power Sensor and ECP-E26A Power Sensor Technical Data (HP literature number 5965-6382E). Contact your Hewlett-Packard representative at the offices listed on the back of this guide if you need more information.

Standard Power Meters

The standard HP EPM-441A and EPM-442A power meters include:

- Single-channel power meter (HP EPM-441A), **order E4418A.** or Dual-channel power meter (HP EPM-442A), **order E4419A.**
- Input sensor connector(s) on front panel.
- Reference calibrator connector on front panel.
- English-language User's Guide and Programming Guide.
- Supplied Accessories:

Power sensor cable (1.5 meter (5 ft) **HP 11730A**). One per HP EPM-441A and two per HP EPM-442A. Power cord (plug matches destination requirements).

ECP-series Power Sensors

The standard HP ECP-E18A and ECP-E26A Power Sensors include:

- Power sensor 10 MHz to 18 GHz (HP ECP-E18A), order E4412A.
 or Power sensor 50 MHz to 26.5 GHz (HP ECP-E26A), order E4413A.
- English-language Operating and Service Manual. (Also available as HP part number E4412-90001.)

Compatibility

The EPM power meters are compatible with HP 8480-series sensors and ECP-series sensors. The ECP-series sensors are only compatible with EPM power meters.

Hardware Options

- □ Supplies parallel rear-panel sensor input(s). (Power reference calibrator output is on front panel.) **Option 002.**
- □ Supplies parallel rear-panel sensor input(s). (Power reference calibrator output is on rear panel.) **Option 003.**
- □ Deletes the HP 11730A sensor cable, **Option 004.**
- □ Supplies a one-instrument rackmount kit, **Option 908.**

Allows one instrument to be rack-mounted into a standard 19 inch rack. Also available as HP part number 5063-9239.

□ Supplies a two-instrument rackmount kit, **Option 909.**

Allows two instruments to be rack-mounted side-by-side into a standard 19 inch rack. Also available as HP part numbers 5063-9212 and 5061-9694.

Special Options

Special options are available. Contact your Hewlett-Packard representative for more information.

Documentation

- □ Deletes the manual set, **Option 0B0**.
- □ Provides the *Service Manual*, **Option 915**.

(Also available as HP part number E4418-90006.)

□ Provides an extra *User's Guide* and *Programming Guide*, **Option 916.**

 $(\mathit{HP}\ \mathit{EPM-441A}\ \mathit{User's}\ \mathit{Guide}\ \mathrm{is}\ \mathrm{also}\ \mathrm{available}\ \mathrm{as}\ \mathrm{HP}\ \mathrm{part}\ \mathrm{number}\ \mathrm{E4418-90000.})$

(HP EPM-442A User's Guide is also available as HP part number E4419-90000.)

(Programming Guide is also available as HP part number E4418-90008.)

Localization Options

For the EPM power meters, these options provide a localized *User's Guide* (replacing the English version) at no extra charge. For the ECP-series sensors, these options provide a localized *Operating and Service Manual* at no extra charge.

□ Supplies German *User's Guide*, **Option ABD**.

(Also available as HP part number E4418-90001 for HP EPM-441A.)

(Also available as HP part number E4419-90001 for HP EPM-442A.)

Operating and Service Manual also available as HP part number E4412-90003 for ECP-series sensors.

□ Supplies Spanish *User's Guide*, **Option ABE**.

(Also available as HP part number E4418-90002 for HP EPM-441A.)

(Also available as HP part number E4419-90002 for HP EPM-442A.)

Operating and Service Manual also available as HP part number E4412-90005 for ECP-series sensors.

□ Supplies French *User's Guide*, **Option ABF**.

(Also available as HP part number E4418-90003 for HP EPM-441A.)

(Also available as HP part number E4419-90003 for HP EPM-442A.)

Operating and Service Manual also available as HP part number E4412-90002 for ECP-series sensors.

□ Supplies Japanese *User's Guide*, **Option ABJ**.

(Also available as HP part number E4418-90005 for HP EPM-441A.)

(Also available as HP part number E4419-90005 for HP EPM-442A.)

Operating and Service Manual also available as HP part number E4412-90006 for ECP-series sensors.

□ Supplies Italian *User's Guide*, **Option ABZ.**

(Also available as HP part number E4418-90004 for HP EPM-441A.)

(Also available as HP part number E4419-90004 for HP EPM-442A.)

Operating and Service Manual also available as HP part number E4412-90004 for ECP-series sensors.

Warranties

One-year return-to-HP service warranty for EPM power meters and ECP-series sensors is standard at no extra charge.

Certificate Options

- □ Supplies ANSI/NCSL Z540-1-1994 Certificate of Calibration (supersedes MIL-STD-45662B), **Option 1BN.**
- □ Supplies ANSI/NCSL Z540-1-1994 Certificate of Calibration with data (supersedes MIL-STD-45662B), **Option 1BP.**
- □ Supplies commercial calibration certificate with test data, **Option UK6.**

Accessories Available

☐ HP power sensor cables:

1.5 meters (5 ft) **HP 11730A.**

3 meters (10 ft) **HP 11730B.**

6.1 meters (20 ft) HP 11730C.

15.2 meters (50 ft) HP 11730D.

30.5 meters (100 ft) **HP 11730E.**

61 meters (200 ft) **HP 11730F.**

□ Accessory pouch:

Holds accessories supplied or ordered: HP 34161A.

☐ Basic instrument transit case:

Protects the power meter during transit: HP 34131A.

Auxiliary Equipment

□ Range calibrator:

The **HP 11683A range calibrator** verifies the accuracy and linearity of the HP EPM power meters. Outputs corresponding to meter readings of 3, 10, 30, 100 and 300 μ W and 1, 3, 10, 30 and 100 mW are provided. Calibration uncertainty is $\pm 0.25\%$ on all ranges.



Literature Reference

EPM Power Meters and E-Series Power Sensors	Technical Specifications	5965-6382E
EPM Power Meters and E-Series Power Sensors	Awareness Brochure	5965-6380E
EPM Power Meters and E-Series Power Sensors	Computer Based Training	5965-6383E
HP Power Meters and Sensors	Power Products Selection Guide	5965-6629E
Fundamentals of RF and Microwave Power Measurements	Application Note 64-1A	5965-6630E

For more information on Hewlett-Packard Test and Measurement products, applications, services, and for a current sales office listing, visit our web site, http://www.hp.com/go/tmdir. You can also contact one of the following centers and ask for a test and measurement sales representative.

United States:

Hewlett-Packard Company Test and Measurement Call Center P.O. Box 4026 Englewood, CO 80155-4026 1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd. 5150 Spectrum Way Mississauga, Ontario L4W 5G1 (905) 206 4725

Europe:

Hewlett-Packard European Marketing Centre P.O. Box 999 1180 AZ Amstelveen The Netherlands (31 20) 547 9900

Japan:

Hewlett-Packard Japan Ltd. Measurement Assistance Center 9-1, Takakura-Cho, Hachioji-Shi, Tokyo 192, Japan Tel: (81-426) 56-7832 Fax: (81-426) 56-7840

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Data Subject to Change

Printed in U.K. E600 5965-6381E 04/97