

SIGNAL ANALYZERS

Measuring Receiver, Sensor Module, Verification Kit

HP 8902A, 11812A, 11722A, 8902S, 11793A, 11792A

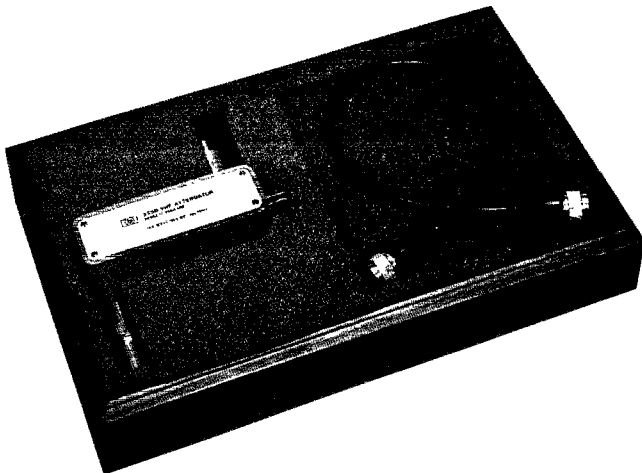
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Ordering Information

HP 8902A Measuring Receiver¹

- Opt 001** Rear Panel Instead of Front Panel Connectors for Input, Modulation Output, and Calibrators
- Opt 002** 1×10⁻⁹/Day Internal Reference Oscillator
- Opt 003** Rear Panel External LO Connectors
- Opt 004** Operation from 48 to 440 Hz Power Line (temp. <40° C)
- Opt 021** Add HP 11722A Sensor Module
- Opt 030** High Selectivity (select only two filter options)
(Options 032 to 037 require Option 030. Option 030 includes Option 003 connections for external local oscillator.)
- Opt 032** 12.5 kHz Filter
- Opt 033** 25.0 kHz Filter
- Opt 035** Cellular Radio Filter
- Opt 037** Carrier Noise Filter
- Opt 050** Increased Power Measurement Accuracy
- Opt 907** Front Handle Kit (5061-9690)
- Opt 908** Rack Flange Kit (5061-9678)
- Opt 909** Rack Flange Kit (5061-9684) with Front Handles
- Opt 910** Additional Operation and Calibration Manual (08902-90029) and 2 Service Manuals (08902-90031)
- Opt 915** Add Service Manual (08902-90031)
- Opt W30** Extended Repair Service (see page 663)
- Opt W32** Calibration Service (see page 663)

¹HP-IB cables not included. For description and prices, see page 99.



HP 11812A

HP 11812A Verification Kit

The HP 11812A verification kit is available to verify the performance of the HP 8902A Option 050 tuned RF level function to $\pm(0.015 \text{ dB} + 0.010 \text{ dB}/10 \text{ dB step})$. The kit consists of a step attenuator, two 10 dB pads semi-permanently attached, a cable, and a case.

HP 11812A Specifications

- Frequency:** 30 MHz
- HP 11812A Accuracy:** $\pm(0.003 \text{ dB} + 0.003 \text{ dB}/10 \text{ dB step})$
- Option 050 Worst-Case Cumulative Tuned RF Level Accuracy Verified with the HP 11812A:**
 - $\pm 0.010 \text{ dB}/10 \text{ dB step}$ (0 to -100 dBm)
 - $\pm 0.050 \text{ dB}/10 \text{ dB step}$ (-100 to -120 dBm)
 - $\pm 0.015 \text{ dB} \pm 1 \text{ digit}$

Ordering Information

HP 11812A Verification Kit

HP 11722A Sensor Module (100 kHz to 2.6 GHz)¹

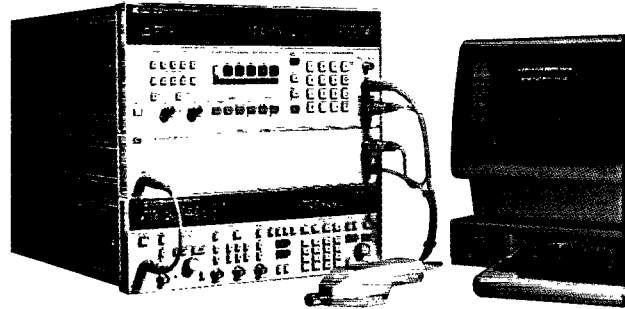
The HP 11722A sensor module was designed for use with the HP 8901B modulation analyzer and the HP 8902A measuring receiver. The HP 11722A contains a silicon monolithic thermocouple as a power-sensing element.

With the HP 11722A sensor module, you get all the performance of the HP 8901B or HP 8902A, plus superb power-measurement accuracy, at a single connector. You can characterize a signal without switching back and forth between the power sensor and the analyzer's RF input.

Ordering Information

HP 11722A Sensor Module (100 kHz to 1300 MHz)

Extend the HP 8902A to Microwave with the HP 8902S Measurement System



HP 8902S System

The HP 8902S system extends the frequency range of the HP 8902A by adding the HP 11793A microwave converter and a local oscillator. With the HP 11792A sensor module, the system delivers the accuracy and resolution of a high-performance power meter to 26.5 GHz from +30 to -100 dBm. The extended system counts signals to 26.5 GHz with 10 Hz resolution and excellent long-term frequency stability.

HP 11793A Microwave Converter

The HP 11793A microwave converter downconverts microwave signals to the frequency range of the HP 8902A measuring receiver. For signals above 1.3 GHz, the HP 11793A routes the signal through its internal mixer. Below 1.3 GHz, signals are routed directly to the input of the HP 8902A.

The HP 11793A requires +8 dBm leveled output from the local oscillator. For LOs with insufficient power above 18 GHz, the HP 11793A offers an optional 18 to 26.5 GHz amplifier.

HP 11792A Sensor Module (50 MHz to 26.5 GHz)¹

The HP 11792A sensor module gives you all the performance of the HP 8902S system, plus superb power-measurement accuracy, at a single connector. You can characterize a signal without manually switching between the power sensor and the receiver input.

Ordering Information

HP 8902S Measuring System

HP 11793A Microwave Downconverter

- Opt 001** Add 18 to 26.5 GHz Amplifier
- Opt 010** Front Right LO Input Connector
- Opt 011** Amplifier and Front Right LO Connector
- Opt 020** Rear Panel Connector
- Opt 021** Amplifier and Rear Panel Connector
- Opt 907** Front Handle Kit (5062-3988)
- Opt 908** Rack Mount Flange Kit (5062-3974)
- Opt 909** Handles w/Rack Mount Flange Kit (5062-3975)

HP 11792A Sensor Module (50 MHz to 26.5 GHz)

For complete ordering information see HP 8902S Measurement System Ordering Information guide, or call your HP sales office.

¹Each HP 11722A and HP 11792A sensor module is individually calibrated, traceable to the U.S. National Institute of Standards and Technology. The calibration factors are printed on the sensor module for fast reference. Enter these factors into the HP 8902A's non-volatile memory and the instrument automatically compensates for the power sensor's efficiency and mismatch loss at each frequency.