1. GENERAL INFORMATION

Option H15 for the HP Model 11792A Sensor Module provides better than standard SWR specifications from 10 MHz to 26.5 GHz.

The HP 11792A Option H15 is an integral part of the HP 8902MS Microwave Measurement System. This System consists of an HP 8902A Option H15 Measuring Receiver, an HP 11792A Option H15 Sensor Module, and HP 11792A Option H16 Sensor Module, an HP 11793A Option H15 Microwave Converter, two HP 8673D Option H15 Synthesized Signal Generators, miscellaneous accessories, and two System Cabinets with power and signal cabling.

2. SPECIFICATIONS

On page 1, replace Table 1 with the following table of specifications for the 11792A Option H15:

Table 1. Specifications for 11792A Option H15

Characteristics	Performance Limits	Conditions
Power Range	-20dBm to +30dBm (10uW to 1W)	
Frequency Range	10 MHz to 26.5 GHz	
Linearity	+2%, -4%	+20dBm to +30dBm <+20dBm
Input SWR		Sensor Module connected to HP 8902A Option H15 and HP 11793A Option H15
RF Power	<1.40 <1.25 <1.10	18 GHz to 26.5 GHz 2 GHz to 18 GHz 10 MHz to 2 GHz
Tuned RF Level	<1.40 <1.32 <1.15	18 GHz to 26.5 GHz 1.3 GHz to 18 GHz 10 MHz to 1.3 GHz

4. DESCRIPTION

On page 3, replace the first paragraph with the following paragraph:

The HP 11792A Option H15 Sensor Module is a companion accessory to the HP 8902MS Microwave Measurement System. It contains a microwave power sensor and RF switching which routes the input signal either into the power sensor or into the measuring instrument.

Also on page 3, replace the third paragraph with the following paragraph:

The power sensor within the Sensor Module is a low SWR, 50 ohm load. The average RF power dissipated by the sensor is read and displayed by the measuring instrument. The sensor's range is -20 dBm to +30 dBm (10 uW to 1W) from 10 MHz to 26.5 GHz. Each Sensor Module is individually calibrated and traceable to the U.S. National Bureau of Standards. Calibration factors are listed on a label on the module's bottom cover. Worst case uncertainties of the calibration factors are listed in Table 3.

On page 4, delete the second paragraph.

13. ENVIRONMENT

On page 7, replace environmental conditions 1 and 2 with the following:

1. Temperature, 15 degrees C to 30 degrees C
   (59 to 85 degrees F)

2. Relative Humidity, 20% to 60%

1. GENERAL INFORMATION

This Operating and Service Manual contains information about initial inspection, operation, performance tests, adjustments, troubleshooting, and repair of the HP Model 11792A Sensor Module.

2. Specifications

Instrument specifications are listed in Table 1. These specifications are the performance standards or limits against which the instrument can be tested. The supplemental characteristics listed in Table 2 are not specifications but are typical characteristics included as additional information for the user.

Table 1. Specifications OPT H15

Characteristics	Performance Limits	Conditions
Power Range	−20 dBm to +30 dBm (10 μW to 1W)	
Frequency Range	10 MHz to 26.5 GHz ~~50 MHz to 26.5 GHz~~ ~~50 MHz to 18 GHz~~	~~Option 001~~
Linearity	+2%, −4%	+20 dBm to +30 dBm <+20 dBm
Input SWR		Sensor Module connected to an HP 8901B or HP 8902A and HP 11793A
RF Power	<1.40 ~~<1.28~~ <1.25 <1.10	18 GHz to 26.5 GHz; ~~Except Option 001~~ 2 GHz to 18 GHz ~~50~~ 10 MHz to 2 GHz
Tuned RF Level	~~<1.43~~ <1.40 <1.32 <1.32 ~~<1.35~~ ~~<1.15~~ <1.10 <1.15	18 GHz to 26.5 GHz; ~~Except Option 001~~ 1.3 GHz to 18 GHz; ~~Except Option 001~~ ~~1.3 GHz to 18 GHz; Option 001 Only~~ ~~50 MHz to 1.3 GHz; Except Option 001~~ ~~50~~ 10 MHz to 1.3 GHz; ~~Option 001 Only~~