




Keysight Waveguide Power Sensors

Covering the V-band, E-band and W-band spectrums, Keysight Technologies, Inc. waveguide power sensors offer best SWR, high reliability and low loss, and come with a 50 MHz calibration port to reduce measurement uncertainties.

Waveguide power sensors comparison table

	E8486A-100	E8486A-200	V8486A	W8486A
				
Frequency range	60 GHz to 90 GHz	60 GHz to 90 GHz	50 GHz to 75 GHz	75 GHz to 110 GHz
Power linearity	-30 to +10 dBm: $< \pm 1\%$ +10 to +20 dBm: $< \pm 2\%$ ¹ +10 to +20 dBm: $< +1, -3\%$ ²	60 to -30 dBm: $< \pm 1.5\%$ -30 to +10 dBm: $< \pm 1\%$ +10 to +20 dBm: $< \pm 1.5\%$	-30 to +10 dBm: $\pm 1\%$ +10 to +20 dBm: $\pm 2\%$	$\pm 2\%$
Maximum power	200 mW average 40 W peak (10 μ s per pulse, 0.5% duty cycle)	200 mW average 1 W peak (10 μ s per pulse, 0.5% duty cycle)	200 mW average 40 W peak (10 μ s per pulse, 0.5% duty cycle)	200 mW average 40 W peak (10 μ s per pulse, 0.5% duty cycle)
Calibration factor input	Does not include EEPROM. Users need to pre-enter calibration factors into the power meter; the calibration factor label will be provided on the power sensor unit.	Comes with EEPROM to store calibration factors. Users simply need to input the frequency and the correct calibration factor will be applied.	Does not include EEPROM. Users need to pre-enter calibration factors into the power meter; the calibration factor label will be provided on the power sensor unit.	Does not include EEPROM. Users need to pre-enter calibration factors into the power meter; the calibration factor label will be provided on the power sensor unit.
Connector type	Waveguide flange: UG-387/U Flange, EIA WR-12		Waveguide flange: UG-385/U	
Weight	Net: 0.4 kg (0.9 lb) Shipping: 1 kg (2.1 lb)			

1. For EPM series power meters.

2. For all other Keysight power meters.

Ordering information

	Model	Description
E-Band	E8486A-100	E-band power sensor, 60 to 90 GHz, -30 to +20 dBm
	E8486A-200	E-band power sensor, 60 to 90 GHz, -60 to +20 dBm
V-Band	V8486A	V-band power sensor, 50 to 75 GHz, -30 to +20 dBm
W-Band	W8486A	W-band power sensor, 75 to 110 GHz, -30 to +20 dBm



The calibration factor label is provided on the back panel of the E8486A-100, V8486A and W8486A.

Keysight waveguide power sensors are compatible with the following power meters:

- E4416A/17A EPM-P power meters ¹
- N1913A/14A and E4418B/19B EPM power meters
- E1416A VXI power meters ¹
- N1911A/12A and N8262A P-series power meters

1. Only applicable to V8486A and W8486A.



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight’s commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.