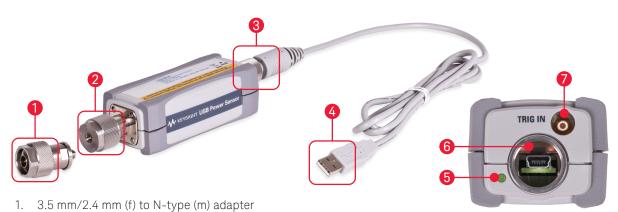
Keysight U8480 Series USB Thermocouple Power Sensors



Improve your power measurement accuracy and throughput



- RF input port for RF/microwave signals
- Physical secure lock mechanism
- USB 2.0 -compliant cable for connection to PC or other instruments
- 5. LED indicator for PC communication
- USB port
- External trigger input port

Key features

Feature	Benefit
Broadband (DC/10 MHz to 18/33/50/67/120 GHz)	It covers low frequency applications to millimeter wave applications with one sensor
Measurement speed of 900 readings/second	Improve production throughput and lower cost of test with the world's fastest USB thermocouple power sensor
Optional DC coupled option	Cover a broad range of applications, such as EMC, metrology and test setup calibrations
eal time measurement uncertainty (MU) Simultaneously display power measurements and their MU; remove the need for mature calculations	
S-parameter and gamma correction function	Improve measurement accuracy by correcting the mismatch errors caused by inserted components between the device-under-test and the power sensor
Best accuracy/repeatability with thermocouple sensing technology	Suitable for applications that request best accuracy or tight tolerance, such as test system or instrument calibrations

A legacy of excellence

Based on the same front end design as the Keysight 8480 and N8480 Series power sensors, the new U8480 Series offers improved specifications, including a measurement speed more than 20 times faster than the legacy series (900 readings/sec vs 40 readings/sec).

Now with USB capabilities, the U8480 Series plugs directly into your PC or USB-enabled Keysight instrument and gives you the capability to measure power without the need of an external power meter or power supply.



The U8480 Series is supported by the Keysight BenchVue software BV0007B Power Meter/Sensor Control and Analysis App. Control your USB power sensor to log data and visualize measurements in a wide array of display options.



Key specifications

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Options	Description	
Frequency range	DC/10 MHz to 18/33/50/67/120 GHz	
Power range	-35 to +20 dBm	
Damage level (RF)	25 dBm (average power), 4 VDC	
	15 W, 2 μs duration (peak power)	
Damage level (DC)	AC coupled (Option 100), 20 V	
	DC coupled (Option 200), 4 V	
Masurement speed	900 readings/sec	
Power linearity	< 0.50% (-5 to +15 dBm)	
	< 0.55% (+15 to +20 dBm)	
Zero set	± 25 nW,	
	± 35 nW (U8489A)	
Zero drift	± 5.5 nW	
Measurement noise	± 4.5 nW	



Ordering information

Model	Description
U8481A	USB thermocouple power sensor (Type-N)
U8481A-100	Standard option - 10 MHz to 18 GHz
U8481A-200	DC coupled option – DC to 18 GHz
U8485A	USB thermocouple power sensor (3.5 mm)
U8485A-100	Standard option - 10 MHz to 33 GHz
U8485A-200	DC coupled option – DC to 33 GHz
U8487A	USB thermocouple power sensor (2.4 mm)
U8487A-100	Standard option – 10 MHz to 50 GHz
U8488A	USB thermocouple power sensor (1.85 mm)
U8488A-100	Standard option – 10 MHz to 67 GHz
U8489A	USB thermocopule power sensor (1.0 mm)
U8489A-200	DC coupled option - DC to 120 GHz
U8489A-501	1.0 mm (f) to N-Type (m) adapter

Standard	shipped	items

Power sensor cable 5 ft (1.5 m), default cable length Trigger cable, BNC male to SMB female, 50Ω , 1.5 m Certificate of calibration Documentation CD-ROM

Keysight Instrument Control DVD (contains IO Libraries Suite, Command Expert, BenchVue software platform, and 30-day free trial of BenchVue power meter/sensor control and analysis app)
U8485A: 3.5 mm (f) to N-Type (m) adapter ¹
U8487A/88A: 2.4 mm (f) to N-Type (m) adapter ¹

1. Not applicable to U8481A.

Options	Description		
Travel kits			
U2000A-201	Transit case		
U2000A-202	Soft carrying case		
U2000A-203	Holster		
U2000A-204	Soft carrying pouch		
Cables (selectable during sensor purchase)			
U2000A-301	Power sensor cable, 5 ft (1.5 m)		
U2000A-302	Power sensor cable, 10 ft (3 m)		
U2000A-303	Power sensor cable, 16.4 ft (5 m)		
Cables			
U2031A	Power sensor cable, 5 ft (1.5 m)		
U2031B	Power sensor cable, 10 ft (3 m)		
U2031C	Power sensor cable, 16.4 ft (5 m)		
U2032A	BNC male to SMB female trigger cable, $50~\Omega$, $1.5~m$		
Calibration			
U848xA-1A7	ISO 17025 compliant calibration and test data		
U848xA-A6J	ANSI Z540 compliant calibration and test data		
U848xA-UK6	Commercial calibration certificate with test data		
Power measurement software			
BV0007B BenchVue Power meter/sensor control and analysis app license			

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