## Keysight N8480 Series Thermocouple Power Sensors

With best-in-class linearity, industry's widest frequency and dynamic range, and EEPROM capability. Keysight Technologies, Inc. N8480 series sensors are widely used in the wireless communications, electronics manufacturing, aerospace/defense applications, and beyond.



## Key features

- World's first AC-coupled sensor with widest frequency range (N8488A)
- High accurate results with best-in-class power linearity of less than 1%
- The industry's widest dynamic range in a thermocouple power measurement solution
- Calibrate easily with automatic upload of calibration factors using the built-in EEPROM feature
- Easily replace the 8480 Series sensors with SCPI code compatibility (with option CFT, except for N8488A)
- Get backward compatibility with Keysight EPM Series (new N1913A/14A, E4418B/19B), EPM-P Series (E4416A/17A) and P-Series (N1911A/12A) power meters

Note: N8480 sensors are not compatible with legacy 43x power meters

## Key specifications

Frequency	100 kHz to 67 GHz (usable up to 70 GHz,		
range	sensor dependent)		
Dynamic range 55 dB (-35 dBm to +44 dBm, sensor depender			
Power linearity	< 1%		



 $\label{thm:eq:couple} \textit{Keysight} \mid \textit{N8480 Series Thermocouple Power Sensors} - \textit{Product Fact Sheet}$ 

### Ordering information

Model	Frequency range	Power range	Connector type	Replaced model
N8481A	10 MHz to 18 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	N-type (male)	8481A
N8482A	100 kHz to 6 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	N-type (male)	8482A
N8485A	10 MHz to 26.5 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	3.5 mm (male)	8485A
N8487A	50 MHz to 50 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	2.4 mm (male)	8487A
N8481B	10 MHz to 18 GHz	-5 to +44 dBm (STD) 0 to +44 dBm (CFT)	N-type (male)	8481B
N8482B	100 kHz to 6 GHz	-5 to +44 dBm (STD) 0 to +44 dBm (CFT)	N-type (male)	8482B
N8481H	10 MHz to 18 GHz	-15 to +35 dBm (STD) -10 to +35 dBm (CFT)	N-type (male)	8481H
N8482H	100 kHz to 6 GHz	-15 to +35 dBm (STD) -10 to +35 dBm (CFT)	N-type (male)	8482H
N8486AR	26.5 GHz to 40 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	Waveguide	R8486A
N8486AQ	33 GHz to 50 GHz	-35 to +20 dBm (STD) -30 to +20 dBm (CFT)	Waveguide	Q8486A
N8488A	10 MHz to 67 GHz	-35 to + 20 dBm (STD)	1.85 mm (male)	-

#### Options description:

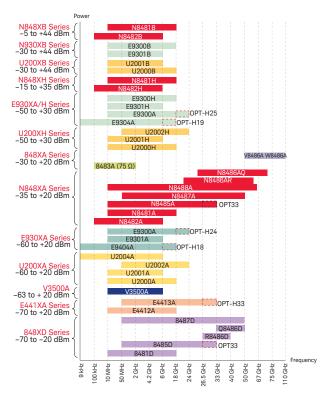
- STD N8480 sensors with EEPROM, automatic loading of cal factors to power meter.
- CFT N8480 sensors with calibration factor data provided on the label attached to the sensor. Similar functionality as the 8480 series.

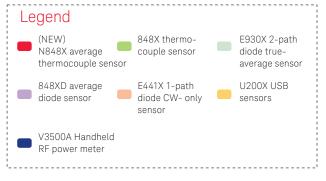
# Accessories, calibration and documentation options

564646			
Туре		Description	
Connectors	Option 100	Type-N (male) connector for N8481A/ N8482A/N8481B/N8482B/N8481H/ N8482H	
		3.5 mm (male) connector for N8485A	
		2.4 mm (male) connector for N8487A	
		Waveguide connector for N8486AR/ N8486AQ	
		1.85 mm (male) connector for N8488A	
	Option 200	APC-7 (male) connector for N8481A only	
Cables	11730A/B/C/ D/E/F cable	For EPM <sup>1</sup> Series power meters: 1.5 m (5 ft)/3.0 m (10 ft)/6.1 m (20 ft)/15.2 m (50 ft)/30.5 m (100 ft)/61.0 m (200 ft), grey	
	E9288A/B/C cable	For EPM <sup>1</sup> and EPM-P Series power meters: 1.5 m (5 ft)/3.0 m (10 ft)/10.0 m (31 ft), blue	
	N1917A/B/C cable	For P-Series power meters: 1.5 m (5 ft)/3.0 m (10 ft)/10.0 m (31 ft)	
Calibration	Option 1A7	ISO 17025 calibration with test data	
	Option A6J	ANSI Z540 calibration with test data	
Documen- tation	Option OB1	Operating and service guide (English)	
	Option ABJ	Operation and service guide (Japanese)	

1. EPM Series includes the N1913A/14A and E4418B/19B.

## Keysight average power sensors





## **KEYSIGHT SERVICES**

Accelerate Technology Adoption. Lower costs.

## www.keysight.com/find/services

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

