

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8481H

The Keysight (Agilent) 8481H is a high-performance thermocouple power sensor designed for precise average RF and microwave power measurements over a frequency range of 10 MHz to 18 GHz. Offering an extensive power range from -10 to +35 dBm (100 μ W to 3 W), it features exceptionally low SWR to significantly reduce mismatch uncertainty. Built to provide reliable NIST-traceable calibration, it is compatible with standard modern power meters including EPM, EPM-P, and P-series models, as well as legacy platforms.

SPECIFICATIONS

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	38 mm × 30 mm × 149 mm mm
Weight	0.22 kg kg

RF Performance

Frequency Range	10 MHz to 18 GHz
Power Measurement Range (dBm)	-10 to +35 dBm
Power Measurement Range (Watts)	100 μ W to 3 W
Nominal Impedance	50 Ω
Maximum SWR (8 to 12.4 GHz)	1.30
Maximum SWR (12.4 to 18 GHz)	1.50

Physical & Interface Connections

RF Input Connector Type	Type-N (male)
Sensor Cable Assembly Requirements	Keysight / Agilent 11730 Series

Compatibility

Compatible Power Meter Models	Keysight EPM, EPM-P, P-Series, E1416A VXI, 70100A, and 43X Series (435B, 436A, 437B, 438A)
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Environmental Specifications

Storage Temperature Range	-40 to +75 °C
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Physical Dimensions & Weight

Net Weight	0.22 kg (0.5 lb)
Shipping Weight	0.68 kg (1.5 lb)

Performance

Sensor Technology	Thermocouple
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Design

Integrated Attenuator	20 dB (calibrated with the sensor as a system)
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Power

Power Source	Powered by the host power meter
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TECHNOLOGY

Thermocouple

APPLICATIONS

RF & Microwave Power Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.