

KEYSIGHT TECHNOLOGIES (AGILENT HP)

U2001H

The Keysight Technologies U2001H is a high-performance, high-power USB power sensor designed for fast, accurate power measurements. Operating across a frequency range of 10 MHz to 6 GHz with a power measurement range from -50 dBm to +30 dBm, this sensor eliminates the need for a separate power meter by connecting directly to a PC or compatible Keysight instrument via a USB 2.0 interface. Its high damage threshold and excellent VSWR make it highly reliable for RF and microwave power testing applications.

SPECIFICATIONS

General

Interfaces	USB 2.0 (USBTMC-USB488)
Display	None (requires host PC or instrument)

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	46 mm x 43 mm x 164 mm mm

RF Input and Measurement Performance

Frequency Range	10 MHz to 6 GHz
Power Measurement Range	-50 dBm to +30 dBm
Input Impedance	50 Ω
RF Input Connector Type	N-type (male)

Connectivity and Control Interfaces

Host Interface Type	USB 2.0
USB Class Type	USBTMC-USB488
External Trigger Input Connector	BNC (via optional trigger cable)
External Trigger Output Connector	BNC (via optional trigger cable)

Software and Compatibility

Supported Software Applications	Keysight BenchVue, BV0007B Power Meter App
Driver Availability	IVI-C, IVI-COM, LabVIEW
Command Set Compatibility	SCPI

Power and Electrical Requirements

Power Source	USB Port
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Environmental Specifications

Operating Temperature Range	0 to 55 °C
Storage Temperature Range	-40 to 70 °C
Operating Humidity	95% RH at 40 °C (non-condensing)
Storage Humidity	90% RH at 65 °C (non-condensing)
Operating Altitude	Up to 4600 m (15000 ft)
Storage Altitude	Up to 15300 m (50000 ft)

Regulatory and Standards Compliance

Recommended Calibration Cycle	1 year
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Performance

Internal Zeroing and Calibration	Supported, eliminates the need for an external reference source
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Measurement Performance

Averaging Range	1 to 1024 (manual or auto)
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TECHNOLOGY

Diode Power Sensor

APPLICATIONS

RF & Microwave Power Measurement

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