

KEYSIGHT TECHNOLOGIES (AGILENT HP)

U2000A

The Keysight U2000A is a high-performance USB average power sensor designed to operate over a wide frequency range of 10 MHz to 18 GHz. By eliminating the need for a separate power meter mainframe, it provides a compact, portable, and cost-effective solution for RF and microwave power measurements directly via a PC or compatible Keysight instrument.

SPECIFICATIONS

General

Interfaces	USB 2.0 (via proprietary 5-pin to USB-A cable)
Display	None (operates via PC host software or compatible instrument)
Warm-up Time	30 minutes
Pollution Degree	2

Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	163.7 mm × 46.0 mm × 35.9 mm mm
Weight	0.262 kg

RF Performance and Ranges

Frequency Range	10 MHz to 18 GHz
Power Range	-60 dBm to +20 dBm
Maximum Average Power	+25 dBm (300 mW)
Maximum Peak Power	+33 dBm (2 W) for < 10 μs
Maximum DC Voltage	5 VDC
Impedance	50 Ω
RF Connector Type	N-type (male)

Connectivity and Interfaces

Sensor Connector Type	Proprietary 5-pin
USB Class	USBTMC (USB Test and Measurement Class)

Software and Programmability

Command Language	SCPI (Standard Commands for Programmable Instruments)
Compatible Software Applications	Keysight BenchVue (Power Meter App), N1918A Power Analysis Manager
Driver Support	IVI-COM, IVI-C, LabVIEW

Physical and Environmental

Storage Temperature Range	-40 to +70 °C
Operating Humidity Range	Up to 95% RH at 40 °C (non-condensing)

Compliance and Standards

EMC Compliance Standards	IEC 61326-1 / EN 61326-1
Safety Standards	IEC 61010-1 / EN 61010-1
Recommended Calibration Cycle	1 year

Ordering and Configuration Options

Optional Cable (U2031A)	1.5 m (5 ft)
Optional Cable (U2031B)	3.0 m (10 ft)
Optional Cable (U2031C)	5.0 m (16.4 ft)

Environmental

Operating Altitude	Up to 3,000 m (9,840 ft)
Non-operating Altitude	Up to 15,240 m (50,000 ft)

Performance

Calibration Type	Internal calibration (no external source required)
Dynamic Range	80 dB
Detector Type	Diode

Electrical

Maximum Damage Level (Average)	+25 dBm
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Calibration

Internal Calibration	Calibrator-free (built-in internal zeroing and calibration)
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TECHNOLOGY

Diode Power Sensor

APPLICATIONS

RF and Microwave Average 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.