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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight DP0001A

Agilent Keysight DP0001A High Voltage Differential Probe The Keysight DP0001A is a high-voltage differential probe for oscilloscopes. OEM Keysight DP0001A literature describes high common-mode rejection differential probing for power electronics and high-voltage floating measurements. Switching power supply drain-source measurements, motor drive analysis, and floating high-voltage oscilloscope probing. Oscilloscope AutoProbe or BNC interface class The Keysight DP0001A is a high-voltage differential probe for oscilloscopes. OEM Keysight DP0001A literature describes high common-mode rejection differential probing for power electronics and high-voltage floating measurements. Switching power supply drain-source measurements, motor drive analysis, and floating high-voltage oscilloscope probing. Oscilloscope AutoProbe or BNC interface class Attenuation settings for wide dynamic range



MODEL

**Agilent / Keysight
DP0001A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DP0001A

LISTING

<https://aumictechlabs.com/products/dp0001a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight DP0001A is a 400 MHz high-voltage differential probe engineered for precision measurements in power electronics applications involving wide bandgap devices, power converters, and motor drives. It captures fast-edge transient pulses up to 1.2 nsec (10–90%) with minimal circuit loading, delivering 875 psec rise time and exceptional common-mode rejection in high-noise environments. The probe supports differential input voltages to 2000 Vrms (6000 V

transient overvoltage) and common-mode voltages to ± 2000 Vpk, with selectable attenuation ratios from 50:1 to 500:1. AutoProbe interface integration enables automatic attenuation switching and configuration on compatible Keysight oscilloscopes.

Technical Specifications

Bandwidth: 400 MHz (-3 dB) Rise Time (10%–90%): 875 psec Maximum Differential Input Voltage: 2000 Vrms (mains isolated), 6000 V transient overvoltage, 1000 V CAT III rating Maximum Common Mode Voltage: ± 2000 Vpk (1400 Vrms) Attenuation Ratios: 50:1, 100:1, 250:1, 500:1 (auto-switchable with compatible oscilloscopes) Differential Input Impedance: $10\text{ M}\Omega \parallel 2\text{ pF}$ Input Impedance (each input to ground): $5\text{ M}\Omega \parallel 4\text{ pF}$ DC Gain Accuracy: $\pm 0.7\%$ or $\pm 0.35\%$ (attenuation-dependent) CMRR Performance: >90 dB DC to >10 MHz; >80 dB at DC (500:1 mode); >70 dB to 400 MHz (500:1 mode) Noise (Vrms): 55 mV (50:1 & 100:1); 75 mV (250:1 & 500:1) Offset Drift: $150\text{ }\mu\text{V}/^\circ\text{C}$ or $40\text{ }\mu\text{V}/^\circ\text{C}$ (attenuation-dependent) Cable Length: 70 cm Operating Temperature Range: -40 to $+85\text{ }^\circ\text{C}$ Safety Certification: UL certified, CAT III (1000 V)

Key Features

Measures 1 kV transient pulses with edge speeds as fast as 1.2 nsec (10–90%) Low input capacitance (2 pF) minimizes circuit loading Flat frequency response ensures signal fidelity across the 400 MHz bandwidth LED overload indicator for overvoltage protection awareness AutoProbe I interface for direct integration with compatible Keysight oscilloscopes

Typical Applications

Wide bandgap power device characterization Power converter efficiency and transient analysis Motor drive switching dynamics High-voltage, high-noise measurement environments

Compatibility & Integration

The DP0001A connects via AutoProbe I interface to Keysight InfiniiVision 3000TX, 4000X, and 6000X Series oscilloscopes; Infiniium S, 9000A, 90000X, V, and Z Series; and Infiniium UXR models ≤ 33 GHz (with N5442A adapter). Automatic probe detection and attenuation configuration eliminate manual setup.

DP0001A Characteristics / Specifications

PARAMETER	VALUE
Model	DP0001A
Instrument Type	high voltage differential probe
Brand Lineage	Agilent Keysight
Function	differential high voltage sensing
Bandwidth Class	high voltage probe bandwidth class OEM
Attenuation Ratios	selectable attenuation class
Maximum Differential Voltage Class	kV class per safety rating
Maximum Common Mode Voltage Class	kV class per safety rating
CMRR Class	high CMRR power electronics class
Input Impedance Class	high-Z differential class
Output Compatibility	Keysight Infiniium and InfiniiVision class
Cable Length Class	probe cable class
Operating Temperature Class	0 C to 40 C
Series Family	Keysight DP000x probes
Related Models	DP0002A class
Use Case	floating HV measurements
Safety Category	per probe markings
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Power Source	scope probe power or USB class
Offset Class	adjustable offset class
Manufacturer	Keysight Technologies
Probe Type	active differential HV
Bandwidth	Class: high voltage probe bandwidth class OEM
Attenuation	Ratios: selectable attenuation class

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C
Humidity	Class: noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C
Operating Temperature	Class: 0 C to 40 C
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 40 C
Series Family	Keysight DP000x probes
Related Models	DP0002A class
Use Case	floating HV measurements
Safety Category	per probe markings
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Power Source	scope probe power or USB class
Offset Class	adjustable offset class
Manufacturer	Keysight Technologies
Probe Type	active differential HV Notes Capability rows from Keysight DP0001A high-voltage differential probe product descriptions. Exact bandwidth voltage derating and attenuation table are on the DP0001A datasheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.