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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) DP0012A Differential Active Probe, 1 GHz

Agilent / Keysight DP0012A Differential Active Probe 1 GHz The Keysight DP0012A is a 1.0 GHz differential active probe in the DP001xA Series for Keysight oscilloscopes with 50 ohm AutoProbeInterface. Auto attenuation ranges of about 17:1 and 85:1 support max differential measurement ranges of +/-8.4 V and +/-42 V respectively, with offset to +/-60 V. Input impedance is 1.7 Mohm with about 1.5 pF between inputs. Rise time is 415 ps (10-90%). General-purpose differential measurements to 1 GHz; automotive differential buses; motor-drive and mid-voltage power signals; high-speed digital differential debug on AutoProbeoscilloscopes. The Keysight DP0012A is a 1.0 GHz differential active probe in the DP001xA Series for Keysight oscilloscopes with 50 ohm AutoProbeInterface. Auto attenuation ranges of about 17:1 and 85:1 support max differential measurement ranges of +/-8.4 V and +/-42 V respectively, with offset to +/-60 V. Input impedance is 1.7 Mohm with about 1.5 pF between inputs. Rise time is 415 ps (10-90%). General-purpose differential measurements to 1 GHz; automotive differential buses; motor-drive and mid-voltage power signals; high-speed digital differential debug on AutoProbeoscilloscopes.



MODEL

**Keysight / Agilent
DP0012A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DP0012A

LISTING

<https://aumictechlabs.com/products/dp0012a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight (Agilent) DP0012A is a 1 GHz differential active probe designed to capture high-speed differential signals with minimal circuit loading. High input impedance (1.7 M Ω differential) and low input capacitance (1.5 pF) preserve signal integrity in critical measurements. The probe delivers 415 ps rise time and excellent common-mode rejection, making it essential for high-speed digital and analog characterization, motor drive analysis, automotive differential bus measurements, and power-related applications. Auto-attenuation ranges (17:1 and 85:1) automatically scale measurement sensitivity based on oscilloscope vertical settings, while a ± 60 V offset range accommodates signals across wide DC bias levels. The 1.3 meter cable and AutoProbe1 interface integrate with Keysight oscilloscopes across multiple series.

Technical Specifications
Bandwidth: 1 GHz (-3 dB) Rise Time: 415 ps Input Impedance (Differential): 1.7 M Ω Series Resistance (Rse): 850 k Ω Input Capacitance: 1.5 pF Attenuation Ranges: Auto 17:1 / 85:1 (configured by vertical scale: ≤ 2 V/div uses 17:1; > 2 V/div uses 85:1) Maximum Differential Measurement Range: ± 42 V (± 42 V peak on 85:1 attenuation) Probe Offset Range: ± 60 V Cable Length: 1.3 meters Operating Temperature: 5°C to 40°C

Key Features
Dual attenuation modes automatically optimize dynamic range and sensitivity High input impedance minimizes probe loading effects on circuit behavior Wide offset capability allows measurement of biased differential signals Includes socketed and solder-in Y-lead pairs, 90° ground lead, microcircuit hooks, and probe tip savers Hard plastic carrying case provided

Typical Applications
High-speed digital bus measurements Motor drive and power electronics characterization Automotive CAN/LIN differential signaling Analog circuit validation in bandwidth-critical designs

Compatibility & Integration
Interface: Keysight AutoProbe1 (power and DC offset via scope connection)
Compatible Oscilloscopes: InfiniiVision HD3, 3000T/4000/6000 X-Series; Infiniium EXR/MXR/S-Series, UXR/V/Z/Q-Series, and 90000 X-Series

Features & description

From manufacturer datasheet

Features

- Warranted bandwidth 1.0 GHz (-3 dB) • Auto attenuation ~17:1 and ~85:1 • Max differential range +/-42 V; offset +/-60 V • AutoProbeInterface (power, offset, auto-config) • Noise about 14 mVrms (17:1) / 38 mVrms (85:1) referenced to input • Accessory ecosystem DP0021A tips/leads; DP0020A skew/PV kit • Cable length about 1.3 m • Non-CAT mains-isolated probe class

DP0012A Characteristics / Specifications

PARAMETER	VALUE
Model	DP0012A
Manufacturer	Keysight / Agilent
Instrument Type	Differential active probe
Alias	DP0012A; Keysight DP0012A
Auto Attenuation Low Range	about 17:1 (auto at ≤ 2 V/div)
Auto Attenuation High Range	about 85:1 (auto above 2 V/div)
Max Differential Range	1: ± 8.4 V peak
Absolute Max Input each side to ground	30 Vrms, ± 42 Vpeak, or ± 60 VDC (mains isolated)
Offset Adjustment Range	± 60 V
Input Resistance Differential	1.7 Mohm
Input Capacitance Differential Class	about 1.5 pF between inputs
Input Capacitance to Ground Class	about 1.0 to 1.5 pF each side
CMRR 100 Hz / 1 kHz	-70 dB
CMRR 20 kHz	-65 dB
CMRR 5 MHz	-30 dB (17:1); -25 dB (85:1)
Noise Referenced to Input	14 mVrms (17:1); 38 mVrms (85:1)
Scope Interface	AutoProbe I, 50 ohm input coupling
Overvoltage Category	Non-CAT (mains isolated)
Cable Length	about 1.3 m
Series Family	DP001xA (DP0010A/11A/12A/13A) Notes Specs from Keysight DP001xA Series differential active probes data sheet and user guide. Confirm AutoProbeI oscilloscope compatibility and included tip accessories.
Auto attenuation ~17	1 and ~85:1
Noise about 14 mVrms (17	1) / 38 mVrms (85:1) referenced to input
Bandwidth	1.0 GHz (-3 dB) - Auto attenuation ~17:1 and ~85:1
Rise Time	is 415 ps (10-90%).

PARAMETER

VALUE

Attenuation

ranges of about 17:1 and 85:1 support max differential measurement ranges of +/-8.4 V and +/-42 V respectively, with offset to +/-60 V. Input impedance is 1.7 Mohm with about 1.5 pF between inputs. Rise time is 415 ps (10-90%).

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	
Specifications	
PARAMETER	VALUE
Model	DP0012A
Manufacturer	Keysight / Agilent
Instrument Type	Differential active probe
Alias	DP0012A; Keysight DP0012A
Bandwidth Warranted (-3 dB): 1.0 GHz	
Probe Rise Time 10-90%: 415 ps	
Auto Attenuation Low Range: about 17:1 (auto at <=2 V/div)	
Auto Attenuation High Range: about 85:1 (auto above 2 V/div)	
Max Differential Range 17:1: +/-8.4 V peak	
Max Differential Range 85:1: +/-42 V peak	
Specifications	
PARAMETER	VALUE
Absolute Max Input each side to ground	30 Vrms, +/-42 Vpeak, or +/-60 VDC (mains isolated)
Offset Adjustment Range	+/-60 V
Input Resistance Differential	1.7 Mohm
Input Resistance Single-ended: 850 kohm	
Specifications	
PARAMETER	VALUE
Input Capacitance Differential Class	about 1.5 pF between inputs
Input Capacitance to Ground Class	about 1.0 to 1.5 pF each side
CMRR 100 Hz / 1 kHz	-70 dB
CMRR 20 kHz	-65 dB
CMRR 5 MHz	-30 dB (17:1); -25 dB (85:1)
Noise Referenced to Input	14 mVrms (17:1); 38 mVrms (85:1)
Scope Interface	AutoProbe I, 50 ohm input coupling
Overvoltage Category	Non-CAT (mains isolated)
Cable Length	about 1.3 m

PARAMETER	VALUE
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Series Family	DP001xA (DP0010A/11A/12A/13A)
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Notes

Specs from Keysight DP001xA Series differential active probes data sheet and user guide. Confirm AutoProbeIscilloscope compatibility and included tip accessories.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.