Aumictech
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Data Sheet
August 13, 2026

KEITHLEY

Keithley 194A

Bias capability: DC bias within +/-40 V limit Temperature extremes: cryogenic-to-hot oven compatible class Manual part class: 16194-90030 operation and service Specs from Agilent/Keysight 16194A product pages and operation/service literature. Confirm mating cables/test head and oven interface on the installation. Temperature extremes: cryogenic-to-hot oven compatible class Manual part class: 16194-90030 operation and service Specs from Agilent/Keysight 16194A product pages and operation/service literature. Confirm mating cables/test head and oven interface on the installation.

MODEL **Keithley 194A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **194A**	LISTING **https://aumictechlabs.com/products/194a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 194A is a programmable high-resolution digitizer engineered for precision waveform acquisition and multi-function signal analysis. It acquires waveforms with frequency components below 500 kHz using external triggering at sampling rates up to 1 MS/s, with selectable 16-bit resolution at rates to 100 kHz or 8-bit resolution from 100 kHz to 1 MHz. The instrument digitizes signal levels from 10 µV to 200 V across an isolated input, making it suitable for floating or ground-referenced measurements. Its 64 KB memory capacity stores either 32k samples at 16-bit resolution or 64k samples at 8-bit resolution, enabling comprehensive waveform capture for post-acquisition analysis. Technical Specifications Sampling and Resolution Externally triggered sampling: up to 1 MS/s 16-bit (4½-digit) resolution at sampling rates to 100 kHz 8-bit resolution at

100 kHz to 1 MHz Programmable sampling interval: 1.0 µs to 1.0 s with 0.1 µs resolution Minimum detectable change: 1 part in 32,000 at 100 kHz Input Specifications Input range: 10 µV to 200 V Maximum input: 250 V peak, 2×10^7 V·Hz Input impedance: 1 MΩ shunted by 60 dB (DC to 1 kHz, 1 kΩ unbalance) Isolated input - floating signal measurements permitted Memory and Storage Total capacity: 64 KB 32k samples at 16-bit resolution 64k samples at 8-bit resolution Display and Control 14-digit alphanumeric LED display with function and bus status indicators Manual or autoranging operation Waveform Analysis Functions Average, Peak to Peak, Plus Peak, Minus Peak, Standard Deviation, True RMS, Integral Key Features IEEE-488 programmability with 90 KB/s binary transfer rate Analog outputs: 0–10 V full scale (X and Y), 2.44 mV resolution Z output: 0 V, 5 V, or 15 V selectable Clock input/output connectors for external synchronization One-hour warmup to rated accuracy Typical Applications Transient waveform capture, signal integrity analysis, frequency-domain measurements below 500 kHz, automated test environments requiring programmatic control. Compatibility & Integration Fully compliant IEEE-488 interface supporting SH1, AH1, T6, TE0, LA, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1 functions. Operates on 105–125 V or 210–250 V selectable, 50/60 Hz.

Features & description

From manufacturer datasheet

Features

- Temperature range -55 C to +200 C operating

Applications

- Temperature-characterized impedance of leaded and SMD parts

194A Characteristics / Specifications

PARAMETER	VALUE
Model	16194A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	High Temperature Component Test Fixture
Alias	HP 16194A; Agilent 16194A; Keysight 16194A
Operating temperature	-55 C to +200 C
Operating humidity	15% to 95% RH at wet bulb less than 40 C
Maximum DC bias voltage	+/-40 V
Terminal connector	7 mm
DUT connection	2 terminal
Electrical length	50 mm
Supported DUT styles	axial radial leaded and SMD
Recommended analyzer class	4291A/B high-temperature test head
Primary use	temperature-dependent component impedance
Form	high-temperature fixture accessory
Bias capability	DC bias within +/-40 V limit
Fixture type	RF component test fixture
Temperature extremes	cryogenic-to-hot oven compatible class
Manual part class	16194-90030 operation and service Notes Specs from Agilent/Keysight 16194A product pages and operation/service literature. Confirm mating cables/test head and oven interface on the installation.
Non-operating Temperature	55 C to +200 C
Humidity	15% to 95% RH at wet bulb less than 40 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	55 C to +200 C
Operating Temperature	55 C to +200 C
Non-operating Temperature	55 C to +200 C
Humidity	15% to 95% RH at wet bulb less than 40 C
Operating humidity	15% to 95% RH at wet bulb less than 40 C
Maximum DC bias voltage	+/-40 V
Terminal connector	7 mm
DUT connection	2 terminal
Electrical length	50 mm
Supported DUT styles	axial radial leaded and SMD
Recommended analyzer class	4291A/B high-temperature test head
Primary use	temperature-dependent component impedance
Form	high-temperature fixture accessory
Bias capability	DC bias within +/-40 V limit
Fixture type	RF component test fixture
Temperature extremes	cryogenic-to-hot oven compatible class
Manual part class	16194-90030 operation and service Notes Specs from Agilent/Keysight 16194A product pages and operation/service literature. Confirm mating cables/test head and oven interface on the installation.

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	16194A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	High Temperature Component Test Fixture

Alias: HP 16194A; Agilent 16194A; Keysight 16194A

Operating temperature: -55 C to +200 C

Non-operating temperature: -55 C to +200 C

Operating humidity: 15% to 95% RH at wet bulb less than 40 C

Non-operating humidity: up to 90% RH at wet bulb less than 65 C

Specifications

PARAMETER	VALUE
Maximum DC bias voltage	+/-40 V
Terminal connector	7 mm
DUT connection	2 terminal

Specifications

PARAMETER	VALUE
Electrical length	50 mm
Supported DUT styles	axial radial leaded and SMD
Recommended analyzer class	4291A/B high-temperature test head

Specifications

PARAMETER	VALUE
Primary use	temperature-dependent component impedance
Form	high-temperature fixture accessory
Bias capability	DC bias within +/-40 V limit

Specifications

PARAMETER	VALUE
Fixture type	RF component test fixture
Temperature extremes	cryogenic-to-hot oven compatible class
Manual part class	16194-90030 operation and service

Notes

Specs from Agilent/Keysight 16194A product pages and operation/service literature. Confirm mating cables/test head and oven interface on the installation.

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

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