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Data Sheet

August 13, 2026

KEITHLEY

Keithley 195 2 Channel System DMM Digital Multimeter

Keithley 195 5.5 Digit IEEE-488 Systems Digital Multimeter The Keithley 195 is a fully programmable 5.5-digit systems DMM with a standard IEEE-488 interface. Base configuration measures DC voltage from 100 nV to 1000 V on six ranges and 2- or 4-terminal resistance from 100 uohm to 20 Mohm on seven ranges. Optional Model 1950 adds TRMS AC voltage (1 uV to 700 V, five ranges), TRMS AC current (1 nA to 2 A, five ranges), and DC current (100 pA to 2 A, six ranges). Front-panel digital calibration stores constants in non-volatile RAM. A 100-reading data logger stores highest, lowest, and average. Talk-only and addressable GPIB modes, external trigger, and voltmeter-complete support rack ATE. The Keithley 195 is a fully programmable 5.5-digit systems DMM with a standard IEEE-488 interface. Base configuration measures DC voltage from 100 nV to 1000 V on six ranges and 2- or 4-terminal resistance from 100 uohm to 20 Mohm on seven ranges. Optional Model 1950 adds TRMS AC voltage (1 uV to 700 V, five ranges), TRMS AC current (1 nA to 2 A, five ranges), and DC current (100 pA to 2 A, six ranges). Front-panel digital calibration stores constants in non-volatile RAM. A 100-reading data logger stores highest, lowest, and average. Talk-only and addressable GPIB modes, external trigger, and voltmeter-complete support rack ATE. IEEE-488 production DCV and ohms; TRMS ACV/ACI and DCI when 1950 is installed.



MODEL

Keithley 195

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

195

LISTING

<https://aumictechlabs.com/products/195-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 195 2 Channel System DMM is a 5.5-digit digital multimeter engineered for precision DC and AC measurements across research, development, and manufacturing environments. This fully programmable instrument delivers measurement capabilities spanning DC voltage from 100 nV to 1000 V, resistance from 100 $\mu\Omega$ to 20 M Ω , and DC current from 100 pA to 2 A (with optional Model 1950 module). The six-digit LED display updates at rates up to 9 readings/second in full resolution mode, with manual or autoranging at 150 ms per range change. Technical Specifications DC voltage measurements achieve $\pm(0.05\% + 1 \text{ digit})$ accuracy with input impedance exceeding 1 G Ω . Resistance measurements use automatic 2-terminal and 4-terminal switching across a 100 $\mu\Omega$ to 20 M Ω range with $\pm(0.2\% + 1 \text{ digit})$ accuracy. AC voltage, AC current, and temperature measurement capabilities are available with the optional Model 1950 module, extending ranges to 700 V AC, 2 A AC, and -220°C to +630°C respectively. Temperature measurements via platinum RTD (3-wire or 4-wire) achieve $\pm(0.1\% + 2^\circ\text{C})$ accuracy. Autoranging operates at 150 ms per range change on DC voltage. Reading rates scale from 76 readings/second at 3½ digits to 9 readings/second at full 5½-digit resolution. The instrument accepts $\pm 360 \text{ V}$ peak or $\pm 250 \text{ V}$ RMS maximum input on resistance measurements. Key Features IEEE-488 standard interface for system integration and remote programming Trigger input via digital connector Programmable range, function, integration period, averaging, and display formats Talk-Only and Addressable address modes 100-reading storage capability Temperature coefficient: less than $\pm(0.1 \times \text{applicable accuracy})/^\circ\text{C}$ across 0°–18°C and 28°–50°C Power consumption: 24 VA maximum; warmup time 1 hour to rated accuracy Compatibility & Integration Standard 105–125 V or 210–250 V AC operation (50–400 Hz); alternative 90–110 V and 180–220 V versions available. The IEEE-488 interface enables integration into larger measurement systems with transmission of readings to peripheral instrumentation.

Features & description

From manufacturer datasheet

Features

- Standard IEEE-488 (not an option on the 195)
- Closed-cover digital calibration from the front panel or the bus
- Non-volatile RAM for calibration, IEEE parameters, and line frequency
- 100-reading buffer with min/max/average
- Autorange or manual range; selectable 3.5 / 4.5 / 5.5 digit integration
- Front/rear 5-way binding posts, switch selectable

195 Characteristics / Specifications

PARAMETER	VALUE
Model	195
Manufacturer	Keithley Instruments
Instrument Type	5.5 digit IEEE-488 systems digital multimeter
Alias	195; Keithley 195; 195A family
Display Digits	5.5
DC Voltage Span	100 nV to 1000 V on 6 ranges
DC Voltage Ranges	20 mV to 1000 V full scale decade ranges
DC Voltage LSD	100 nV to 10 mV
DC Input Resistance Low	greater than 1 Gohm (below 20 V ranges)
DC Input Resistance High	10 Mohm (20 V and above)
Resistance Span	100 uohm to 20 Mohm on 7 ranges
Resistance Ranges	20 ohm to 20 Mohm full scale decade ranges
Resistance Wiring	automatic 2 terminal or 4 terminal
Resistance LSD	100 uohm to 100 ohm
Ohms Max Input	360 V peak or 250 V rms
AC Option	Model 1950 TRMS ACV plus AC and DC current
AC Voltage Span	1 uV to 700 V TRMS on 5 ranges (1950)
AC Voltage Ranges	200 mV to 700 V full scale decade ranges (1950)
AC Input Impedance	2 Mohm shunted by less than 75 pF
AC Bandwidth	minus 3 dB at 250 kHz typical; 20 Hz to 50 kHz specified class
AC Crest Factor	up to 3:1
AC Max Input	1000 V peak, 1e7 V Hz
DC Current Span	100 pA to 2 A on 6 ranges (1950)
DC Current Ranges	20 uA to 2 A full scale decade ranges (1950)
DC Current LSD	100 pA to 10 uA

PARAMETER	VALUE
AC Current Span	1 nA to 2 A TRMS on 5 ranges (1950)
AC Current Ranges	200 uA to 2 A full scale decade ranges (1950)
Current Overload Protect	2 A fuse (250 V), externally accessible
Temperature Range	minus 200 C to plus 630 C with PT-100 DIN 43760 RTD (3 or 4 wire)
Reading Rate 3.5 Digit	3.3 ms integration, 76 readings per second
Reading Rate 4.5 Digit	16.66 ms integration, 36 readings per second
Reading Rate 5.5 Digit	100 ms integration, 9 readings per second
Bench Rate DCV	5 readings per second
Bench Rate Ohms	3 readings per second except 20 Mohm at 1 reading per second
Data Buffer	100 readings
IEEE Functions	SH1, AH1, T5, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT1, C0, E1
Address Modes	TALK ONLY and ADDRESSABLE
Trigger IO	rear BNC trigger in and voltmeter complete, TTL
Line Voltage	105 to 125 V or 210 to 250 V (90 to 110 / 180 to 220 optional transformer)
Line Frequency	50 to 400 Hz
Power Consumption	24 VA
DC Max Input	1000 V peak class
Bandwidth	minus 3 dB at 250 kHz typical; 20 Hz to 50 kHz specified class

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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Power Consumption	24 VA
DC Max Input	1000 V peak class

Notes

Specs from Keithley Model 195 Digital Multimeter instruction manual (195-901-01C class) condensed specifications and TekWiki Model 195A table (same 195/195A systems family). Confirm 195 versus 195A faceplate and whether Option 1950 current/ACV is installed.

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.