

KEITHLEY

2002

The Keithley 2002 is an 8.5-digit high-performance digital multimeter engineered for applications demanding exceptional resolution, accuracy, and high throughput. Built around a 28-bit A/D converter, the Model 2002 offers unmatched measurement integrity with a broad suite of built-in functions, an emulation mode for the HP 3458A, and support for an optional internal 10-channel scanner card.

SPECIFICATIONS

General

Compatible Scanner Cards	Keithley 2001-SCAN, 2001-TCSCAN
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Physical

Operating Temperature	0°C to 50°C °C
Rack Mount Height	2U
Rack Mount Width	Half-rack

DC Voltage

DCV Measurement Ranges	200 mV, 2 V, 20 V, 200 V, 1000 V
DCV Maximum Resolution	1 nV (on 200 mV range)
DCV Input Resistance	>100 GΩ on 200 mV, 2 V, 20 V ranges; 10 MΩ ±1% on 200 V, 1000 V ranges

AC Voltage

ACV Measurement Ranges	200 mV, 2 V, 20 V, 200 V, 750 V
ACV Measurement Technique	True RMS, AC-coupled or AC+DC-coupled
ACV Frequency Range	1 Hz to 2 MHz
ACV Maximum Crest Factor	5:1 at full scale
ACV Coupling Options	AC-coupled or AC+DC-coupled

DC Current

DCI Measurement Ranges	200 μA, 2 mA, 20 mA, 200 mA, 2 A
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AC Current

ACI Measurement Ranges	200 μA, 2 mA, 20 mA, 200 mA, 2 A
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Frequency and Period

Frequency Range	1 Hz to 15 MHz
Period Range	67 ns to 1 s

Interfaces and Connectivity

GPIB Interface	IEEE-488.2 compatible
SCPI Compatibility	Fully compatible

Power and Physical Specifications

Warm-up Time	4 hours to rated accuracy
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Environmental and Standards

Storage Temperature Range	-40°C to 70°C
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Power

Line Frequency Range	45 Hz to 66 Hz, and 360 Hz to 440 Hz (automatically sensed)
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System/General

Maximum Guard to Earth Voltage	500 V peak
Maximum LO to Earth Voltage	500 V peak

TECHNOLOGY

Analog-to-digital integration

APPLICATIONS

High-precision laboratory calibration, component testing, and automated test equipment (ATE) environments

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