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Data Sheet

July 29, 2026

TEKTRONIX

Tektronix DMM249 True RMS Multimeter

The Tektronix DMM249 is a True RMS digital multimeter designed for accurate and reliable measurements. It features a large, backlit display for easy reading, and measures voltage, current, resistance, capacitance, and frequency. Ideal for electronics troubleshooting, testing, and maintenance.



MODEL

Tektronix DMM249

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DMM249

LISTING

<https://aumictechlabs.com/products/dmm249-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Tektronix DMM249 is a handheld True RMS multimeter engineered for accurate electrical measurements in field service and benchtop environments. Its 3200-count LCD display with 65-segment analog bar graph delivers both precise digital readings and real-time trend visualization at 2 samples/second (digital) and 12 samples/second (analog). True RMS AC voltage and current measurement ensures accuracy regardless of waveform distortion. Technical Specifications The DMM249 operates across a 0°C to +50°C temperature range with 0% to 80% relative humidity capability. A single 9 V battery (IEC 6F22 or ANSI/NEDA 1640A) provides approximately 350 hours of typical alkaline operation, with automatic power-off at 10 minutes of inactivity. Voltage & Current Measurement DC Voltage: $\pm(0.3\% \text{ of reading} + 2 \text{ counts})$; 10 M Ω input impedance AC Voltage (True RMS): $\pm(0.3\% \text{ of reading} + 2 \text{ counts})$; 40 Hz to 1 kHz response (3 V range: 40 Hz to 300 Hz) Maximum input: 1000 VDC or 750 VACRMS CAT II between V and COM terminals

Overload protection: 1100 VDC or VAC peak-to-peak; 1000 VDC or 750 VAC RMS Input impedance: 10 M Ω paralleled by <100 pF Display & Sampling 3200-count LCD with 65-segment analog bar graph Digital sampling: 2 times/second Analog bar graph sampling: 12 times/second Automatic polarity indication with "OL" or "-OL" overrange display Key Features Auto-ranging and data hold functions streamline field measurements. Push-to-hold capability enables single-handed operation. Shrouded safety terminals and IP54 dust and water resistance rating provide protection in harsh environments. The meter holds CAT III measurement category certification with CAT II rating for voltages up to 1000 VDC or 750 VAC. Safety certifications include UL1244, CSA231, and EN61010-1. Typical Applications Field service technicians, maintenance personnel, and benchtop test engineers rely on the DMM249 for AC/DC voltage and current characterization, particularly in waveform-rich electrical environments where True RMS accuracy is critical. Compatibility & Integration The meter accepts standard IEC 6F22 or ANSI/NEDA 1640A 9 V batteries. Low battery indication alerts users when voltage drops below operating threshold.

DMM249 Characteristics / Specifications

PARAMETER	VALUE
CHARACTERISTICS DC Volts Accuracy	$\pm (0.3\% \text{ ofrdg} + 2 \text{ ct s})$.
Input Impedance	10 megaohm paralleled by $< 100 \text{ pF}$.
Overload Protection	600 VDC/ AC RMS. Test Voltage (open circuit) : approximately equal to 1.3 V.
AC Volts Frequency Response	3 V range: 40 to 300 Hz; Other ranges: 40 Hz to 1 kHz.
Accuracy	$\pm (1.3\% \text{ ofrdg} + 3 \text{ ct s})$.
Input Resistance	10 megaohm paralleled by $< 100 \text{ pF}$.
DC Current Accuracy	300 μA : $\pm (1\% \text{ ofrdg} + 2 \text{ ct s})$. 3 mA: $\pm (1.2\% \text{ ofrdg} + 2 \text{ ct s})$. 30 mA: $\pm (1\% \text{ ofrdg} + 2 \text{ ct s})$. 300 mA: $\pm (1.2\% \text{ ofrdg} + 2 \text{ ct s})$. 20 A: $\pm (2\% \text{ ofrdg} + 3 \text{ ct s})$.
Burden Voltage	RangeResolution 300 mV0.1 mV 3 V1 mV 30 V10 mV 300 V100 mV 1000 V1 V RangeResolution 3 V1 mV 30 V10 mV 300 V100 mV 750 V1 V RangeResolution 300 μA 0.1 μA 3 mA1 μA 30 mA10 μA 300 mA100 μA 20 A10 mA 300 μA , 30 mA: 200 mVmax ; 3 mA, 300 mA, 20 A: 2 Vmax.
AC Current Accuracy	300 μA , 3 mA, and 30 mARanges: $\pm (1.5\% \text{ ofrdg} + 4 \text{ ct s})$. 300 mA: $\pm (2\% \text{ ofrdg} + 4 \text{ ct s})$. 20 A: $\pm (2.5\% \text{ ofrdg} + 5 \text{ ct s})$.
Frequency Response	40 Hz to 1 kHz.
Resistance Accuracy	300 Ohm : $\pm (1.2\% \text{ ofrdg} + 4 \text{ ct s})$. 3 kilohm, 30 kilohm, and 300 kilohm ranges: $\pm (1.0\% \text{ ofrdg} + 2 \text{ ct s})$. 300 megaohm : $\pm (1.5\% \text{ ofrdg} + 3 \text{ ct s})$. 30 megaohm : $\pm (2.5\% \text{ ofrdg} + 5 \text{ ct s})$.
Diode TestMax Test Current	1.5 mA. RangeResolution 300 μA 0.1 μA 3 mA1 μA 30 mA10 μA 300 mA100 μA 20 A10 mA RangeResolution 300 Ohm0.1 Ohm 3 kilohm1 Ohm 30 kilohm10 Ohm 300 kilohm100 Ohm 3 megaohm1 kilohm 30 megaohm10 kilohm
Test Voltage (open circuit)	3.3 V.
Resolution	1 mV. Input Protection : 600 VDC/ AC RMS.
Sampling Rate	2 S/ s for digital display ; 12 S/ s for analog bargraph.
Operating Ambient Temperature	0 to 50° C (0 to 80% R. H.) .
Automatic Power Off	After 10 minutes.
Power Supply	9 V battery . Battery Life : 350 hours typical (alkaline) . Dimensionsmmmin. Length192.7 Width95.3 Depth50.9 Net

PARAMETER	VALUE
	Weightkglb. with battery0.36 with holster0.56 Top of Page Feat ur es Specs Or der ingInformat ion Request aQuote Pr oduct manufact ur ed inISO 9001 r egist er ed facilities

DMM249 Specifications

PARAMETER	VALUE
of technicians and engineers.	• 10+ full time technicians with over 150 years of
specialization	• 90 day warranty & 5 day right of return on all
Handheld Digital Multimeters	DMM 249
pF.	Ov e r loa d Pr ot e ct ion : 1100 VDC or VAC peak - t o -
RangeResolution	300 mV0.1 mV
ct s) .	300 m A: ± (2% of r dg + 4 ct s) .
Continuity	Buzzer sounds if r esist ance < 30 Ohm .
Diode Test	M a x Te st Cu r r e n t : 1. 5 m A.
Safety	UL1244, CSA231, EN61010- 1.
Physical Characteristics	D isp la y : 3200 count LCD.
analog bar gr aph.	Op e r a t in g Am b i e n t Te m p e r a t u r e : 0 t o 50° C (0 t o
Dimensionsmm.in.	Length1927.5
Width953.7	Depth501.9
Net Weightkglb.	with battery0.36
Request a Quot e	Pr oduct m anufact ur ed in I SO 9001 r egist er ed facilities
Accu r a cy	± (0. 3% of r dg + 2 ct s) .
Fr e q u e n cy Re sp on se	3 V r ange: 40 t o 300 Hz;
Bu r d e n V olt a ge	RangeResolution
Ov e r loa d Pr ot e ct ion	m A r anges: 1 A (600 V) fast - blow fuse;

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet (<https://docs.alltest.net/manual/Alltest-Tektronix-DMM249-Datasheet.pdf>). Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

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Specifications

PARAMETER	VALUE
CHARACTERISTICS DC Volts Accuracy	$\pm (0. 3\% \text{ ofrdg} + 2 \text{ ct s}) .$
Input Impedance	10 m egaohm par alleled by < 100 pF.
Overload Pr otect ion	1100 VDC or VAC peak - t o - peak .
AC Volts Frequency Re sp on se	3 Vrange: 40 t o 300 Hz; Ot her ranges: 40 Hzto 1 k Hz.
Accuracy	$\pm (1. 3\% \text{ ofrdg} + 3 \text{ ct s}) .$
Input Re sistance	10 m egaohm par alleled by < 100 pF.
Overload Pr otect ion	1100 VAC peak - t o - peak .
DC Current Accuracy	300 μ A: $\pm (1\% \text{ ofrdg} + 2 \text{ ct s}) .$

3 m A: $\pm (1. 2\% \text{ ofrdg} + 2 \text{ ct s}) .$
30 m A: $\pm (1\% \text{ ofrdg} + 2 \text{ ct s}) .$
300 m A: $\pm (1. 2\% \text{ ofrdg} + 2 \text{ ct s}) .$
20 A: $\pm (2\% \text{ ofrdg} + 3 \text{ ct s}) .$
Burden Voltage : RangeResolution 300 mV0.1 mV 3 V1 mV 30 V10 mV 300 V100 mV 1000 V1 V RangeResolution 3 V1 mV
30 V10 mV 300 V100 mV 750 V1 V RangeResolution 300 μ A0.1 μ A 3 mA1 μ A 30 mA10 μ A 300 mA100 μ A 20 A10 mA
300 μ A, 30 m A: 200 mVmax ; 3 m A, 300 m A, 20 A: 2 Vmax .
Overload Pr otect ion : mAranges: 1 A (600 V) fast - blow fuse; 20 A range: 15 A (600 V) fast - blow fuse.
AC Current Accuracy : 300 μ A, 3 m A, and 30 mAranges: $\pm (1. 5\% \text{ ofrdg} + 4 \text{ ct s}) .$
300 m A: $\pm (2\% \text{ ofrdg} + 4 \text{ ct s}) .$
20 A: $\pm (2. 5\% \text{ ofrdg} + 5 \text{ ct s}) .$

Specifications

PARAMETER	VALUE
Burden Voltage	300 μ A, 30 mAranges: 200 mVmax ; Ot her ranges: 2 Vmax .
Frequency Re sp on se	40 Hzto 1 k Hz.
Overload Pr otect ion	mAranges: 1 A (600 V) fast - blow fuse; 20 A range: 15 A (600 V) fast - blow fuse.
Resistance Accuracy	300 Ohm : $\pm (1. 2\% \text{ ofrdg} + 4 \text{ ct s}) .$

3 k ilohm , 30 k ilohm , and 300 k ilohm ranges: $\pm (1. 0\% \text{ ofrdg} + 2 \text{ ct s}) .$
300 m egaohm : $\pm (1. 5\% \text{ ofrdg} + 3 \text{ ct s}) .$
30 m egaohm : $\pm (2. 5\% \text{ ofrdg} + 5 \text{ ct s}) .$

Overload Protection : 600 VDC/ AC RMS. Test Voltage (open circuit) : approximately equal to 1.3 V.
Continuity Buzzer sounds if resistance < 30 Ohm . Input Protection : 600 VDC/ AC RMS.
Diode TestMax Test Current : 1.5 mA.
RangeResolution 300 μ A0.1 μ A 3 mA1 μ A 30 mA10 μ A 300 mA100 μ A 20 A10 mA RangeResolution 300 Ohm0.1 Ohm 3 kilohm1 Ohm 30 kilohm10 Ohm 300 kilohm100 Ohm 3 megaohm1 kilohm 30 megaohm10 kilohm
Test Voltage (open circuit) : 3.3 V.
Resolution : 1 mV. Input Protection : 600 VDC/ AC RMS.
Safety UL1244, CSA231, EN61010- 1. Physical CharacteristicsDisplay : 3200 count LCD.

Specifications

PARAMETER	VALUE
Sampling Rate	2 S/ s for digital display ; 12 S/ s for analog bargraph.
Operating Ambient Temperature	0 to 50° C (0 to 80% R. H.) .
Automatic Power Off	After 10 minutes.
Power Supply	9 V battery . Battery Life : 350 hourstypical (alkaline) .

Dimensionsmmmin. Length1927.5 Width953.7 Depth501.9 Net Weightkglb. with battery0.36 with holster0.56
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