2100

6½-Digit USB Digital Multimeter

The Model 2100 USB Digital Multimeter is the newest member of Keithley's family of high performance DMMs. Its high accuracy (38ppm), 6½-digit resolution is ideal for critical measurements. The Model 2100 features 11 measurement functions and 8 math functions to easily accommodate the most commonly measured parameters. All accessories, such as USB cable, probes, and software, are included with the Model 2100. With its unique combination of high precision and low total cost of ownership, the Model 2100 is an unbeatable value for R&D engineers, test engineers, scientists, and students making basic precision measurements on the bench and in

- **High precision 6½-digit DMM for critical measurements at a 5½-digit price**
- **11 measurement functions cover most commonly measured parameters**
- **Fully specified accuracies on all functions for ISO-compliant results**
- **Included PC software utilities for graphing and data sharing in both Microsoft® Word and Excel**
- **Rugged construction for durability in bench/portable applications**
- **Selectable front/rear inputs facilitate bench or rack use**
- **Includes all accessories, such as startup software, USB cable, power cable, and safety test lead, for lowest total cost**
- **CE compliant and UL listed**
- **TMC compliant USB 2.0 interface for use with SCPI test programs**

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Ordering Information

2100/100 6½-digit USB Digital Multimeter (100V)

2100/120 6½-digit USB Digital Multimeter (120V)

2100/220 6½-digit USB Digital Multimeter (220V)

2100/230-240 6½-digit USB Digital Multimeter (230-240V)

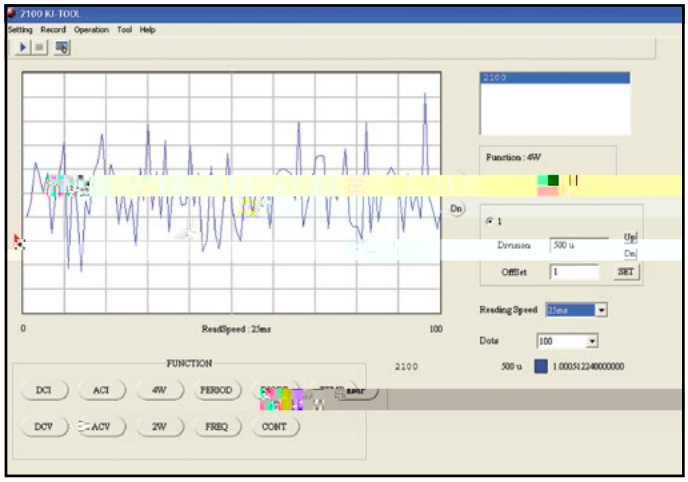
Accessories Supplied

Instruction manual on CD, Specifications, LabVIEW® Driver, Keithley I/O Layer, USB Cable, Power Cable, Safety Test Leads, KI-Tool, and KI-Link Add-in (Both Microsoft Word and Excel versions)

Applications

The Model 2100 USB Digital Multimeter is ideal for applications in: electronic device, circuit, module, and product testing; low cost production testing of electrical and electronic components, sub-assemblies, and end products; and student lab assignments. Typical applications include:

- Test Engineers: Manual and semi-automatic electrical functional test
- Development Engineers: Electrical/electronic circuit and product validation
- Service/Calibration Technicians: Electronic product repair and calibration
- Research Scientists: Electrical and physics experiments testing
- Engineering Students: Electronic device and circuits experiment testing



Startup Software, PC Utilities Included

The KI-Tool application provides charting and graphing capabilities without programming to simplify setup, checkout, and basic measurement applications requiring graphical data representation. Scale, offset, and level can be adjusted to fine tune images for visual evaluation of signal and noise elements over time. It also includes tabular data and SCPI command prompt windows for maximum flexibility. Data sets can also be saved to disk files.

The Microsoft Excel Add-In utility is also included and provides quick data

ACCESSORIES AVAILABLE

RACK MOUNT KITS	
4299-3	Single Rack Mount Kit
4299-4	Dual Rack Mount Kit
8605	High Performance Modular Test Leads
8606	High Performance Modular Probe Kit

SERVICES AVAILABLE

2100/120-3Y-EW	1 Year Factory Warranty extended to 3 years from date of shipment
C/2100/120-3Y-DATA	3 (Z540-1 compliant) Calibrations within 3 years of purchase for Model 2100/120*
C/2100/120-3Y-ISO	3 (ISO-17025 accredited) Calibrations within 3 years of purchase for Model 2100/120*

*Not available in all countries

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Specifications

DC CHARACTERISTICS: Accuracy[1] ±(% of reading + % of range)

AC CHARACTERISTICS:
Accuracy[1] ±(% of reading + % of range)

Function	Range	Frequency (Hz)	1 Year (% of reading) 23°C ±5°C
Frequency and Period	100 mV to 750 V[2]	3–5	0.10
		5–40	0.05
		40–300k	0.01

Function	Range	Resolution	Frequency (Hz)	1 Year (23°C ±5°C)
ACV (AC TRMS Voltage)	100.0000 mV	0.1 µV	3 – 5	1.15 + 0.05
			5 – 10	0.45 + 0.05
			10 – 20k	0.08 + 0.05
			20k – 50k	0.15 + 0.06
			50k – 100k	0.70 + 0.09
			100k – 300k	4.25 + 0.60
	1.000000 V to 750.000 V[2]	1.0 µV to 1 mV	3 – 5	1.10 + 0.04
			5 – 10	0.4 + 0.04
			10 – 20k	0.08 + 0.04
			20k – 50k	0.14 + 0.06
			50k – 100k	0.70 + 0.08
			100k – 300k	4.35 + 0.50
ACI (AC TRMS Current)	1.000000 A	1 µA	3 – 5	1.10 + 0.05
			5 – 10	0.40 + 0.05
			10 – 5k	0.15 + 0.05
	3.000000 A	10 µA	3 – 5	1.25 + 0.07
			5 – 10	0.45 + 0.07
			10 – 5k	0.2