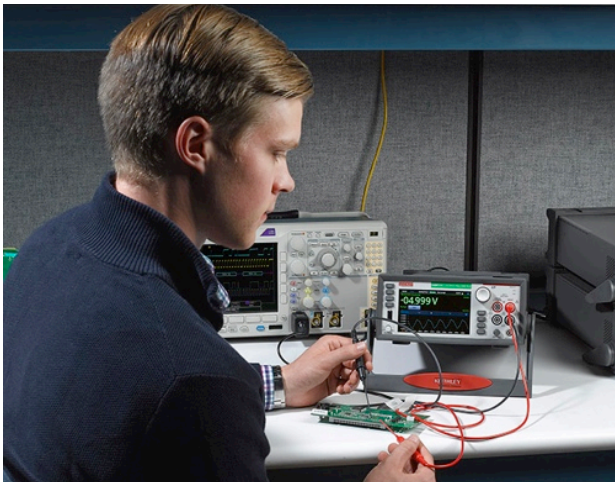# Product Fact Sheet
DMM 7510 7½-Digit Graphical Sampling Multimeter

Capturing Accuracy, Data Visualization, and Interactivity in a New Class of DMM
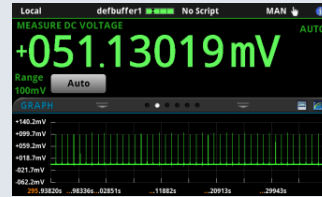

Touch, Test, Invent®

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Tektronix®

DMM7510 7½-Digit Graphical Sampling Multimeter
Unprecedented Combination of Data Visualization, Accuracy, and Interaction

Beyond the Traditional DMM
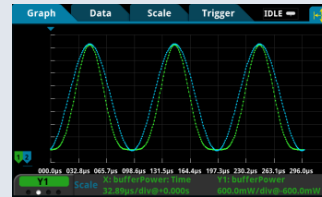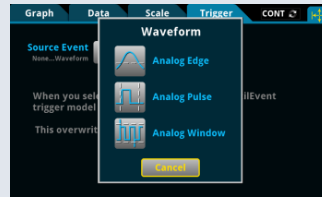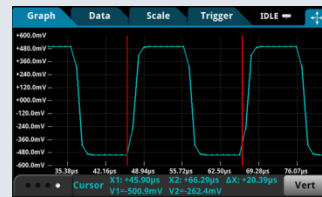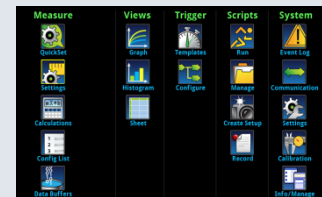

7½-digit accuracy

15 basic functions

Compare signal traces

Advanced triggering options

Set vertical or horizontal cursors

Icon based design

Typical Applications

High Precision R&D
- Device characterization, debugging and analysis
- R&D for precision components

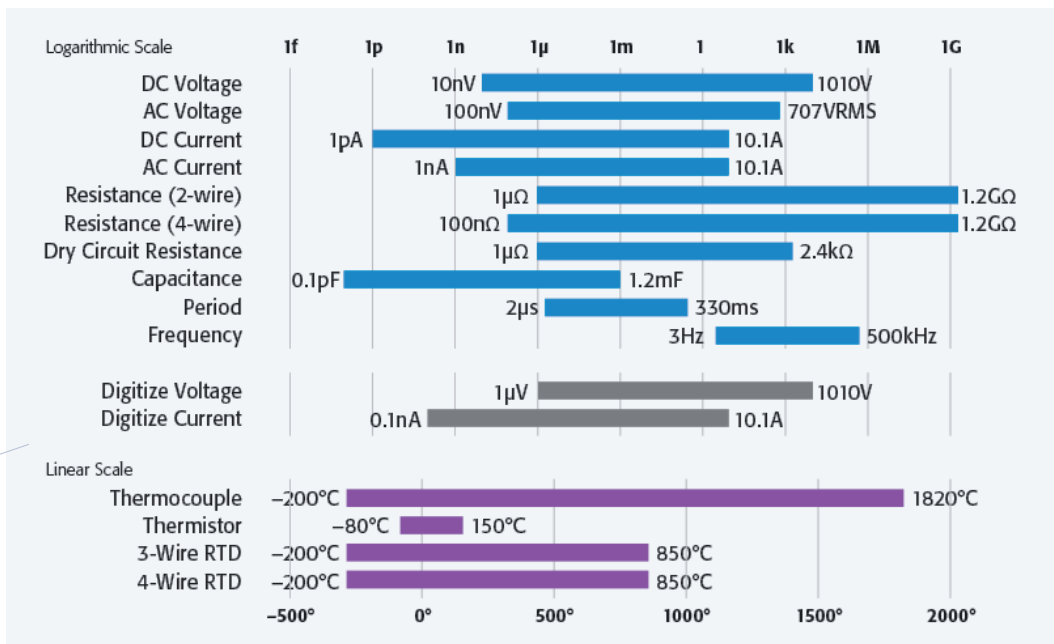**Production/ATE**
- Precision component production
- Component binning
- Production System Reference

Features and Benefits

3½- to 7½-digit resolution	Meets demanding accuracy requirements
100 mV, 1Ω, 10 uA ranges	Captures low level signals
Five-Inch touchscreen display	Lowers learning curve; returns results faster
1 MS/sec digitizer	Captures and displays waveforms or transient
Auto-calibration feature	Improves accuracy and stability by minimizing temperature and time drift
Two-year specifications	Allows longer calibration cycles

www.touchtestinvent.com

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Condensed Specifications
DMM7510 7½-Digit Graphical Sampling Multimeter

Measurement Specifications

	Range	Resolution	Accuracy ± [ppm of reading + ppm of range]				
			24 hour T_{CAL} ±1 °C	90 day T_{CAL} ±5 °C	1 year T_{CAL} ±5 °C	2 year T_{CAL} ±5 °C	Temp coefficient
DC Voltage	10.000000 V	1 µV	2 + 0.7	9 + 1.2	14 + 1.2	22 + 1.2	0.1 + 0.05
DC Current	100.00000 µA	10 pA	20 + 5	60 + 9	60 + 9	60 + 9	0.15 + 0.1
Resistance	1.0000000 kΩ	100 µΩ	12 + 3	24 + 4	24 + 4	24 + 4	0.15 + 0.1

Refer to www.keithley.com for additional product details, complete specifications, application notes, software, videos, product tours.

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