M3500A Specifications

DC Characteristics

	(DC Voltage)	Function			
1000.000V	100.0000V	10.00000V	1.0000000	100.0000mV	Range
1mV	100µV	10, ₁ V	1.0,iV	0.1 _{LI} V	Reso- lution
10MΩ	10MΩ	>10GΩ	>10GΩ	>10GΩ	Input Resistance
0.0045+0.0010	0.0045+0.0006	0.0035+0.0005	0.0040+0.0007	0.0050+0.0035	1 year accuracy ± (% of reading + % of range) (23°C±5°C)

	(DC Current)	Function		
3.00000A	1.000000A	100.0000mA	10.00000mA	Range
10µA	1µA	100nA	10nA	Reso- lution
0.10	0.10	5.10	5.10	Shunt Resistance
0.120+0.020	0.100+0.010	0.050+0.005	0.050+0.020	1 year accuracy ± (% of reading + % of range) (23°C+5°C)

AC Characteristics

40-300K

Function

Range

Reso- Frequency ± (% of reading lution (Hz) (23°C+5°C)

5-10

0.35+0.04

1.00+0.04

Continuity	Diode Test Continuity		operation is used.)	when a NULL	(Specifications are	Resistance			Function
1000.000	1.00000V	100.0000MΩ	10.00000MΩ	1.000000MΩ	100.0000KΩ	10.00000Ks	1.000000KΩ	100.00000	Range
10mg	10µV	1000	100	10	100mΩ	10mΩ	1mΩ	100µΩ	Reso- lution
1mA	1mA	500nA//	500nA	5µA	10,ıA	100µA	1mA	1mA	Test Current
0.010+0.030	0.010+0.020	0.800+0.010	0.040+0.001	0.010+0.001	0.010+0.001	0.010+0.001	0.010+0.001	0.010+0.004	1 year accuracy ± (% of reading + % of range) (23°C+5°C)

Jimension	
x vveignt	14/
Approx. 4.36kg	85(H)x210(W)x350(D)mr

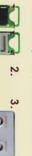
Accessories Included:

1.Standard:

CD(user manual and software application), power cord, test leads, and USB cable.

2.Options:

- M3500-opt01:Multi-Point Scanner Card
- M3500-opt02:Thermocouple Adapter
- M3500-opt03:BNC to Banana Adapter
- M3500-opt04:GPIB Card
- M3500-opt05:RTD Probe Adapter M3500-opt06:RS-232 Card
- M3500-opt07:Kelvin Probe
- M3500-opt08:4-WireTest Leads













PICOTEST®

Specifications are subject to change without notice due to design improvement.

















































































































































































































Frequency and Period

Function

Range 100mV to 750V Frequency (Hz) 5-10 10-40 3-5 1 year accuracy ± (% of reading (23°C+5°C) 0.05 0.03 0.10 LESTLOSIC

6.5 Digital Multimeter

Accuracy

3.00000A 1.000000A 1.000000V 100.0000 mV 750.000V 0.1 LV 1.0 LV 10µA 1mV 1µA ö 50K-100K 100K-300K 100K-300K 50K-100K 20K-50K 20K-50K 10-20K 5-10 5-10 5-10 10-5K 10-20K 3-5 3-5 3-5 0.35+0.06 0.60+0.08 0.30+0.04 4.00+0.50 0.60+0.08 0.12+0.05 0.06+0.03 0.35+0.03 4.00+0.50 0.12+0.05 0.06+0.04 1.10+0.06 1.00+0.03 1.00+0.04

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(AC True RMS

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(*Note 1: Specifications are for 2-hours warm-up at 6.5 digit * slow AC filter with Bandwidth 3Hz * sine wave input.)
(*Note 2: 750 ACV Range is limited to 100KHz)

(AC True RMS

8

Current)

Area Agency

Carrog, CORWEN Berwyn House The Debug Store

www.TheDebugStore.com sales@TheDebugStore.com LL21 9AT, United Kingdom

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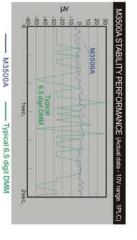




http://www.picotest.com.tw

Stability, Speed & Accuracy

The 6.5 digit M3500A DMM is designed by 7.5 digit techniques and provides users a stable, fast and accurate measurement. The following figure is a stability performance comparison between a typical 6.5 digit DMM and the M3500A.



High Speed: 2000 Rdgs/Sec

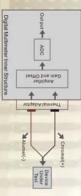
The M3500A is engineered with expertise to reach such a high performance: Both of the sampling rate and the data transfer rate can achieve 2000 readings per second.

19 Full-Featured Functions

There are 11 measurements and 8 math functions:
DCI, DCV, ACI, ACV, 2WD, 4WD, Frequency, Period, Diode, Continuity,
Temperature: Limits, Ratio, MX+B, %, dBm, dB, Min/Max, Null.
In addition, Trigger and Memory functions are also involved.

Temperature Measurements

Our thermal measurement functions support two types of measurements: Thermocouples and RTDs. For thermocouples, we support up to seven types of sensors: E, J, K, N, R, S, and T, using a NIST Monograph 175 reference table. Moreover, for the RTD temperature conversions, we adopt three types of standard: ITS-90, IEC751 and Callendar-Van Dusen standard in our thermal measurement functions. All these are made for users' convenience.



K-Type Thermocouple Temperature Measurement





0.00116289 0.0017629 0.0017679 0.0017679 0.0001767	21000 1962-9000 23510000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 23510000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 2351000 23510000 23510000 23510000 235100000 2351000000000000000000000000000000000000	THE PERSONAL PROPERTY OF STREET OF S	90-3232909 905381000	969C#10000	0.00123667	96182200010	OHM4
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			10	100	100	1,00:00:00	2008/4/2 16:52:04
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Multi-Point SCAN

The M3500A supports up to 10 channels (2-pole) multi-point scan. For using this option, users need a multi-point scanner card (M3500-opt01). The installation of the multi-point scanner card is very easy - just turn off the M3500A and plug in a multi-point scanner card, and it is done!



Noise Immunity

The M3500A has an excellent performance on noise immunity. The core of this DMM is a powerful multi-slope analog to digital converter (A/D converter), which helps the DMM to reach high-speed sampling rate, filters out most noise, and keeps a good measurement linearity still. In addition, to reduce the environmental background noise, four sets of earth ground are added on the meter's front panel. And the copper conductors inside the meter also reduce the thermal EMFs.

Built-in USB Interface

The M3500A is equipped with a standard USB interface. This easy to use and hot plug-in USB interface supports a data transfer rate over 2000 readings per second. It allows the DMM to reach a truly high speed, both internal sampling rate, I/O data rate, and increase the measurement speed.

Support USBTMC

USBTMC stands for USB Test & Measurement Class. Any USB device conforms to USBTMC without the limitations of operation systems and environment can work under VISA assistance, and communicate with a computer. In other words, the control procedures via VISA to USBTMC device and via VISA to GPIB device are the same.



Displays with 3 Colors

The VFD dual displays with 5x7 dot matrix, and three-color annunciators are adopted on the M3500A. Users can easily distinguish each symbols by colors.



Free Remote-Control Software:

The Remote-Control Software, PT-TOOL & PT-LINK, is free and easy for users' application. PT-TOOL is a stand-alone software which can imitate virtual M3500A operations on the PC, and allow users to transmit data in Excel format. In addition, PT-LINK under the Microsoft Word® & Excel® application provides users a simple function of getting values and diagrams.