



AM-510 Commercial / Residential Digital Multimeter

AM-500 Digital Multimeter Series

The Amprobe AM-510 Commercial/Residential Multimeter is designed for light commercial and advanced residential applications. Re-wire electrical panels, install heated floors or new light fixtures, troubleshoot and repair home appliances, electrical sockets and automotive electrical problems with this easy-to-use multimeter. The AM-510 features a built-in flashlight to see wires and fuses in the dark, a rubber tilt stand and probe holder to give you the "third-hand" you need while taking measurements. Also offering safety features including Voltect non-contact voltage detection for quick go/no-go checks without the need for an additional tool. Compact yet tough, this multimeter is built to last through all your electrical projects.

- Voltage up to 600V ac/dc, ac/dc current and resistance
- Frequency, capacitance, duty cycle for troubleshooting applications
- Voltect™ Non-contact voltage detection
- Audible continuity
- Diode test
- Backlit LCD display
- Data hold
- Relative zero mode
- Auto and manual-ranging
- Built-in flashlight
- Built-in test leads storage and "third hand" probe holder
- Auto and manual-ranging
- Auto power off
- Low battery warning
- Safety rated: CAT III 600V

AM-510 DETAILED SPECIFICATIONS

Specifications	Range	Best Accuracy
AC Voltage	400 mV 4.000 / 40.00 / 400.0 / 600 V	±(1.0% Rdg + 3 LSD) @ 45 Hz to 400 Hz, 4 V to 400V ranges
DC Voltage	400 mV 4.000 / 40.00 / 400.0 / 600 V	±(0.8% Rdg + 1 LSD) @ 4 V to 400 V ranges
Resistance	400.0 Ohms 4.000 / 40.00 / 400.0 kOhms 4.000 / 40.00 MOhms	±(1.0% Rdg + 2 LSD) @ 4 kOhms to 400 kOhms ranges
AC Current	400.0 / 4000 µA 40.00 / 400.0 mA 4.000 / 10.00 A	±(1.2% Rdg + 3 LSD)
DC Current	400.0 / 4000 µA 40.00 / 400.0 mA 4.000 / 10.00 A	±(1.0% Rdg + 2 LSD)
Frequency	10Hz to 10MHz	±(0.1% Rdg + 4 LSD)
Capacitance	40.00 / 400.0 nF 4.000 / 40.00 / 100.0 µF	±(3.0% Rdg + 5 LSD) @ 400 nF to 40 µF ranges
Battery Test	1.5 V, 9 V	±(1.0% Rdg + 3 LSD)
Duty Cycle		0.1% to 99.9%

For more detailed specifications see instruction manual.

AM-500 SERIES SELECTION GUIDE

		AM-500	AM-510	AM-520	AM-530	AM-540	AM-550
MULTIMETER TYPE		Autoranging	Com / Res	HVAC	Electrical	Adv. HVAC	Industrial
Application:							
Functions	Safety Rating	Safety		CAT III 600V	CAT III 600V	CAT III 600V CAT II 1000V	CAT III 600V CAT II 1000V
	Measure voltage in noisy environments	True-rms					
	Electrical panels, AC outlets	AC Voltage (V)		600	600	750	750
	DC systems, auto/marine batteries	DC Voltage (V)		600	600	1000	1000
	AC Current - electrical panels, appliances	AC Current (A)		10	10	10	10
	DC Current - electronics, DC motors	DC Current (A)		10	10	10	10
	Specified resistance and continuity	Resistance (MOhms)		20	40	40	40
	Flame sensors	Micro Amps		■	■	■	■
	Diodes in ac to dc converters	Diode test		■	■	■	■
	Fuses, light bulbs, wire connections	Continuity		■	■	■	■
	Household batteries	Battery test		■	■		
	Motor startup or run capacitors	Capacitance			■	■	■
	Frequency verification	Frequency			■	■	■
	VolTect™ Non-contact voltage detection	Non-contact voltage			■	■	■
	Electrical load-time on vs. time off	Duty cycle			■		■
Temp of air vents, fuses, transformers	Temperature inputs				1	1	
Features	Automatically selects measurement range	Autoranging		■	■	■	■
	Manually select measurement range	Manual ranging			■	■	■
	Voltage on variable frequency drives	Low pass filter				■	■
	Detect stray voltages	Low Z					■
	Dimly lit areas	Built-in flashlight			■	■	■
Display	Meter resolution	LCD Counts		2,000	4,000	4,000	4,000
	Dimly lit areas	Backlight			■	■	■
	Monitoring fast changing signals	Bar graph				■	■
	Two relative measurements on one screen	Dual display				■	■
Events	Data memory	Data hold		■	■	■	■
	Difference between two measurements	Relative reading			■	■	■
	Max/min peak measurement	Max/min hold				■	■
	Specialized signal measurements	Peak hold (crest)				■	■

INCLUDED ACCESSORIES

Model	Batteries (Installed)	Test Leads	Temperature Probe	Temperature Adaptor	Velcro Strap	Carrying Case	User's Manual
AM-500	AAA x2	■					■
AM-510	9V (6F22) x1	■					■
AM-520	9V (6F22) x1	■	K-type probe x1		■	■	■
AM-530	9V (6F22) x1	■	K-type probe x1		■	■	■
AM-540	9V (6F22) x1	■	K-type probe x2	■	■	■	■
AM-550	9V (6F22) x1	■	K-type probe x2	■	■	■	■

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