



# AM-500

## Autoranging Multimeter

### AM-500 Digital Multimeter Series

Designed for residential or DIY applications, the AM-500 is one of the most affordable autoranging multimeters available. Install, troubleshoot or repair light fixtures, fans, appliances, or automotive electrical problems with ease and safety of a CAT III 600V rated product. Check for voltage in the electrical sockets, extension cords, batteries and other electrical circuits. Let the power of a professional Amprobe multimeter keep you safe and help you solve your electrical challenges.







- Autoranging feature automatically sets up voltage, current, and resistance ranges for you
- Voltage up to 600V ac/dc
- Resistance
- Audible continuity
- Diode test
- Data hold
- Auto power off
- Low battery warning
- Safety rated: CAT III 600V

### AM-500 DETAILED SPECIFICATIONS

Specifications	Range	Accuracy
AC Voltage	2.000 / 20.00 / 200.0 / 600 V	$\pm(1.0\% \text{ Rdg} + 3 \text{ LSD}) @ @ 45 \text{ Hz to } 400 \text{ Hz, } 2 \text{ V to } 200 \text{ V ranges}$
DC Voltage	200 mV 2.000 / 20.00 / 200.0 / 600 V	$\pm(0.8\% \text{ Rdg} + 1 \text{ LSD}) @ 2 \text{ V to } 200 \text{ V ranges}$
Resistance	200.0 Ohms 2.000 / 20.00 / 200.0 kOhms 2.000 / 20.00 MOhms	$\pm(1.0\% \text{ Rdg} + 2 \text{ LSD}) @ 2 \text{ kOhms to } 200 \text{ kOhms ranges}$
AC Current	200.0 / 2000 $\mu\text{A}$ 20.00 / 200.0 mA 2.000 / 10.00 A	$\pm(1.2\% \text{ Rdg} + 2 \text{ LSD})$
DC Current	200.0 / 2000 $\mu\text{A}$ 20.00 / 200.0 mA 2.000 / 10.00 A	$\pm(1.0\% \text{ Rdg} + 2 \text{ LSD})$
Battery Test	1.5 V, 9 V	$\pm(1.0\% \text{ Rdg} + 3 \text{ LSD})$

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
<b>Application:</b>								
<b>Functions</b>	Safety Rating	<b>Safety</b>	CAT III 600V	CAT III 600V	CAT III 600V CAT II 1000V	CAT III 600V CAT II 1000V	CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V
	Measure voltage in noisy environments	<b>True-rms</b>				■		■
	Electrical panels, AC outlets	<b>AC Voltage (V)</b>	600	600	750	750	1000	1000
	DC systems, auto/marine batteries	<b>DC Voltage (V)</b>	600	600	1000	1000	1000	1000
	AC Current - electrical panels, appliances	<b>AC Current (A)</b>	10	10	10	10	10	10
	DC Current - electronics, DC motors	<b>DC Current (A)</b>	10	10	10	10	10	10
	Specified resistance and continuity	<b>Resistance (MOhms)</b>	20	40	40	40	60	60
	Flame sensors	<b>Micro Amps</b>	■	■	■	■	■	■
	Diodes in ac to dc converters	<b>Diode test</b>	■	■	■	■	■	■
	Fuses, light bulbs, wire connections	<b>Continuity</b>	■	■	■	■	■	■
	Household batteries	<b>Battery test</b>	■	■				
	Motor startup or run capacitors	<b>Capacitance</b>		■	■	■	■	■
	Frequency verification	<b>Frequency</b>		■	■	■	■	■
	VolTect™ Non-contact voltage detection	<b>Non-contact voltage</b>		■	■	■	■	■
	Electrical load-time on vs. time off	<b>Duty cycle</b>		■			■	■
Temp of air vents, fuses, transformers	<b>Temperature inputs</b>			1	1	2	2	
<b>Features</b>	Automatically selects measurement range	<b>Autoranging</b>	■	■	■	■	■	■
	Manually select measurement range	<b>Manual ranging</b>		■	■	■	■	■
	Voltage on variable frequency drives	<b>Low pass filter</b>					■	■
	Detect stray voltages	<b>Low Z</b>						■
	Dimly lit areas	<b>Built-in flashlight</b>		■	■	■	■	■
<b>Display</b>	Meter resolution	<b>LCD Counts</b>	2,000	4,000	4,000	4,000	6,000	6,000
	Dimly lit areas	<b>Backlight</b>		■	■	■	■	■
	Monitoring fast changing signals	<b>Bar graph</b>			■	■	■	■
	Two relative measurements on one screen	<b>Dual display</b>					■	■
<b>Events</b>	Data memory	<b>Data hold</b>	■	■	■	■	■	■
	Difference between two measurements	<b>Relative reading</b>		■	■	■	■	■
	Max/min peak measurement	<b>Max/min hold</b>			■	■	■	■
	Specialized signal measurements	<b>Peak hold (crest)</b>					■	■

## 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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