



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 | ±(1.0% Rdg + 3 LSD) @ @ 45 Hz to 400 Hz, 2 V to 200 V ranges |
| DC Voltage | 200 mV 2.000 / 20.00 / 200.0 / 600 V | ±(0.8% Rdg + 1 LSD) @ 2 V to 200 V ranges |
| Resistance | 200.0 Ohms 2.000 / 20.00 / 200.0 kOhms 2.000 / 20.00 MOhms | ±(1.0% Rdg + 2 LSD) @ 2 kOhms to 200 kOhms ranges |
| AC Current | 200.0 / 2000 μA 20.00 / 200.0 mA 2.000 / 10.00 A | ±(1.2% Rdg + 2 LSD) |
| DC Current | 200.0 / 2000 μA 20.00 / 200.0 mA 2.000 / 10.00 A | ±(1.0% Rdg + 2 LSD) |
| Battery Test | 1.5 V, 9 V | ±(1.0% Rdg + 3 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 |
| Application: | | | | | | | | |
| Functions | Safety Rating | Safety | 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 | True-rms | | | | ■ | | ■ |
| | Electrical panels, AC outlets | AC Voltage (V) | 600 | 600 | 750 | 750 | 1000 | 1000 |
| | DC systems, auto/marine batteries | DC Voltage (V) | 600 | 600 | 1000 | 1000 | 1000 | 1000 |
| | AC Current - electrical panels, appliances | AC Current (A) | 10 | 10 | 10 | 10 | 10 | 10 |
| | DC Current - electronics, DC motors | DC Current (A) | 10 | 10 | 10 | 10 | 10 | 10 |
| | Specified resistance and continuity | Resistance (MOhms) | 20 | 40 | 40 | 40 | 60 | 60 |
| | 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 | 2 | 2 | |
| 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 | 6,000 | 6,000 |
| | 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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