



AM-500 DIY-PRO Digital Multimeter

AM-500 Digital Multimeter Series

Easy to use digital multimeter designed for the homeowner or office space maintenance person to check for voltage in receptacles, extension cords, light fixtures, batteries and other electrical circuits. Check fuses, light bulbs and continuity of the electrical connections. Verify voltage level of the automotive batteries and troubleshoot electrical problems of the cars.

- Measurements: Voltage up to 600V AC/DC, AC/DC Current and Resistance
- Audible continuity
- Diode Test
- Data hold
- Auto power off
- Low battery warning
- Safety: 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 μA 20.00 / 200.0 mA 2.000 / 10.00 A | $\pm(1.2\% \text{ Rdg} + 2 \text{ LSD})$ |
| DC Current | 200.0 / 2000 μA 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 current range from 8-10A, do not measure current for more than one (1) minute. Wait for 10 minutes before taking another measurement.

For more detailed specifications see instruction manual.

AM-500 SERIES SELECTION GUIDE

| | | | AM-500 | AM-510 | AM-520 | AM-530 | AM-560 | AM-570 |
|--|--|----------------------------|--------------|--------------|--------------|--------------|------------------------------|------------------------------|
| 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 III 600V | 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 | 600 | 600 | 1000 | 1000 |
| | DC systems, auto/marine batteries | DC Voltage (V) | 600 | 600 | 600 | 600 | 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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