



AM-520 HVAC Digital Multimeter

AM-500 Digital Multimeter Series

Designed for the HVAC professional, the AM-520 HVAC Digital Multimeter is complete with key functions such as temperature, micro amps used for flame sensor troubleshooting and capacitance to check motor start-up capacitors. The AM-520 measures a complete range of electrical parameters and features a built-in flashlight, a "third hand" probe holder and VolTect™ non-contact voltage detection.

- Measurements: voltage up to 750Vac and 1000Vdc, ac/dc current, resistance, frequency, capacitance, temperature.
- VolTect™ Non-contact voltage detection
- Built-in test leads storage and "third hand holder"
- Audible continuity
- Diode test
- Data hold
- Max/min memory
- Relative zero mode
- Built-in flashlight
- Auto and manual ranging
- Auto power off and low battery warning
- Backlit LCD display with analog bar graph
- Velcro strap to hang a meter
- Safety rated: CAT III 600V, CAT II 1000V









AM-520 DETAILED SPECIFICATIONS

Specifications	Range	Best Accuracy
AC Voltage	400 mV 4.000 / 40.00 / 400.0 / 750 V	±(1.0% Rdg + 3 LSD) @ 45 Hz to 400 Hz, 4 V to 400 V ranges
DC Voltage	400 mV 4.000 / 40.00 / 400.0 / 1000 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	10 Hz to 10 MHz	±(0.1% Rdg + 4 LSD)
Capacitance	40.00 / 400.0 nF 4.000 / 40.00 / 400.0 / 4000 µF	±(3.0% Rdg + 5 LSD) @ 400 nF to 40 µF ranges
Temperature	-40 °F to 1832 °F -40 °C to 1000 °C	°F: ±(1.8% rdg + 6 °F) @ >32 °F to 212 °F °C: ±(1.2% rdg + 3 °C) @ >0 °C to 100 °C
Number of temperature inputs	Single Thermocouple	

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				