



AM-540-EUR



Product Overview

Digital Multimeter

The Beha-Amprobe AM-500-EUR Digital Multimeter Series, a full line of digital multimeters that offer functions for every application. These tough meters are designed to be a reliable, feature-rich, and rugged solution for taking critical measurements in residential, HVAC, electrical and industrial settings at breakthrough affordability.

- Functions
- Voltage, current and resistance measurement
  - Capacitance and frequency measurement
  - Diode and acoustic continuity test


- Product information
- Automatic and manual range selection
  - Integrated measurement memory (data hold)
  - Illuminated display
  - Relative measurement
  - Auto Power Off
  - Temperature measurement
  - Additional bar graph display (61 segments)
  - MIN/MAX hold
  - Low pass filter
  - Peak value measurement
  - Carry case included

- Product highlights
- Non-contact voltage detection
  - Built-in LED flashlight
  - Two temperature inputs
  - Duty cycle function
  - Measurement category CAT IV / 600V, CAT III / 1000V

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	400mV 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-540			
MULTIMETER TYPE			Adv. HVAC
<b>Application:</b>			
<b>Functions</b>	Safety Rating	<b>Safety</b>	CAT IV 600V CAT III 1000V
	Measure voltage in noisy environments	<b>True-rms</b>	
	Electrical panels, AC outlets	<b>AC Voltage (V)</b>	1000
	DC systems, auto/marine batteries	<b>DC Voltage (V)</b>	1000
	AC Current - electrical panels, appliances	<b>AC Current (A)</b>	10
	DC Current - electronics, DC motors	<b>DC Current (A)</b>	10
	Specified resistance and continuity	<b>Resistance (MOhms)</b>	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>	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>	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>	■