



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