



AMPROBE®

AM-220 & AM-240 Digital Multimeters



- Measure: AC/DC Voltage up to 600V, AC/DC Current up to 10A, Resistance, Capacitance, Frequency, Duty Cycle
- Temperature measurement with selectable F/C (AM-240 only)
- AC/DC micro Amps for sensors diagnosis
- Large Backlight LCD Display
- Diode Test
- Audible Continuity Test
- Data Hold
- MAX, MIN and Relative measurements
- Auto and Manual Ranging
- Auto Power Off (can be disabled)
- Tilt stand
- Safety: CAT III 600V

Feature	AM-220	AM-240
AC/DC Voltage	400mV 4.000/40.00/400.0/600 V	
AC/DC Current	400/4000μA 40/400 mA 4/10 A	
Resistance	400.0Ω 4.000/40.00/400.0 kΩ 4.000MΩ/40.00 MΩ	
Capacitance	40.00/400.0 nF 4.000/40.00/400.0/4000μF	
Frequency	10.00/ 100.0/1000 Hz 10.00/100.0/1000 kHz 10M Hz	
Duty Cycle	0.1%_99.9%	
Temperature		-58° to 1382°F (-50° to 750°C)

OPTIONAL ACCESSORIES	PART NUMBER
3000AAC Flexible Clamp-on Attachment	ACF-3000 AK
1000A TRMS AC/DC Clamp-on Attachment	A-1000
600A AC/DC Clamp-on Attachment	CT-600 AC/DC
400A AC Clamp-on Attachment	A400
Milli-Amps to 30A AC/DC Clamp-on Attachment	CT-30
Dual input Thermocouple adapter with two thermocouples -50°F to 600°F	DKTA-620 and two of TPK-56
Single Input Thermocouple Temperature Adapter (Recommended for AM-220)	TMA-K
Alligator Clips (For test leads)	VRC-320
Carrying Case	SV-U

REPLACEMENT PARTS	PART NUMBER
<i>(supplied with product)</i>	
Thermocouple (AM-240 Only)	TPK-59
Test leads with set of alligator clips <i>(alligator clips are not supplied with product)</i>	MTL-90B
Fuse 250V, 0.5A	5X20-250.5
Fuse 250V, 10A	6X32-250V10A
Instruction Manual	www.AMPROBE.com

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DC VOLTAGE		
RANGE	Accuracy	Resolution
400mV	$\pm (0.5\%+2)$	0.1mV
4V		1mV
40V		10mV
400V		100mV
600V	$\pm (0.8\%+3)$	1V
Overload protection: 600V DC or AC RMS		
Impedance: 10M Ω , More than 100M Ω on 400mV range		

AC VOLTAGE		
RANGE	Accuracy	Resolution
400mV	$\pm (1.5\%+3)$	0.1mV
4V	$\pm (1.0\%+2)$	1mV
40V		10mV
400V		100mV
600V	$\pm (1.5\%+3)$	1V
Average sensing, calibrated to RMS of sine wave		
Frequency: 40 ~ 400Hz		
Overload protection: 600V DC or AC RMS		
Impedance: 10M Ω , More than 100M Ω on 400mV range		

DC CURRENT		
RANGE	Accuracy	Resolution
400μA	± (1.2%+3)	0.1μA
4000μA		1μA
40mA		10μA
400mA		100μA
4A	1mA	1mA
10A		10mA
Overload protection: 0.5A/250V, 10A/250V fuse		

AC CURRENT		
RANGE	Accuracy	Resolution
400μA	± (1.5%+3)	0.1μA
4000μA		1μA
40mA		10μA
400mA		100μA
4A	± (2.5%+5)	1mA
10A		10mA
Average sensing, calibrated to RMS of sine wave		
Frequency: 40~400Hz		
Overload protection: 0.5A/250V, 10A/250V fuse		

RESISTANCE		
RANGE	Accuracy	Resolution
400 Ω	$\pm (1.0\%+2)$	0.1 Ω
4k Ω		1 Ω
40k Ω		10 Ω
400k Ω		100 Ω
4M Ω		1k Ω
40M Ω	$\pm (2.0\%+3)$	10k Ω
Overload protection: 250V DC or AC RMS		

CAPACITANCE		
RANGE	Accuracy	Resolution
40nF	$\pm (3.0\%+10)$	10pF
400nF	$\pm (2.5\%+5)$	100pF
4 μ F		1nF
40 μ F	$\pm (5.0\%+10)$	10nF
400 μ F		100nF
4000 μ F	$\pm (20.0\%+20)$	10 μ F
Overload protection: 250V DC or AC RMS		

DIODE AND AUDIBLE CONTINUITY TEST		
RANGE	Description	Test Condition
$\rightarrow \rightarrow \rightarrow$	Display read approximately forward voltage of diode	Forward DC current approx. 0.4mA Reversed DC voltage approx. 2.8V
	Built-in buzzer sounds if resistance is less than 50 Ω	Open circuit voltage approx. 0.5V
Overload protection: 250V DC or AC RMS		

FREQUENCY		
RANGE	Accuracy	Resolution
10Hz	± (0.1%+5)	0.01Hz
100Hz		0.1Hz
1000Hz		1Hz
10kHz		10Hz
100kHz		100Hz
1000kHz		1kHz
10MHz		10kHz
Sensitivity: sine wave 0.6V RMS (10MHz: 1.5V RMS)		
Overload protection: 250V DC or AC RMS		

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