



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
3000A AC 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
400Ω	± (1.0%+2)	0.1Ω
4kΩ		1Ω
40kΩ		10Ω
400kΩ		100Ω
4MΩ		1kΩ
40MΩ	± (2.0%+3)	10kΩ
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
	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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