



# 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	<a href="http://www.AMPROBE.com">www.AMPROBE.com</a>

[www.AMPROBE.com](http://www.AMPROBE.com)



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DC VOLTAGE		
RANGE	Accuracy	Resolution
400mV	± ( 0.5%+2 )	0.1mV
4V		1mV
40V		10mV
400V		100mV
600V	± ( 0.8%+3 )	1V
<b>Overload protection:</b> 600V DC or AC RMS <b>Impedance:</b> 10MΩ, More than 100MΩ on 400mV range		

AC VOLTAGE		
RANGE	Accuracy	Resolution
400mV	± ( 1.5%+3 )	0.1mV
4V	± ( 1.0%+2 )	1mV
40V		10mV
400V		100mV
600V	± ( 1.5%+3 )	1V
Average sensing, calibrated to RMS of sine wave <b>Frequency:</b> 40 ~ 400Hz <b>Overload protection:</b> 600V DC or AC RMS <b>Impedance:</b> 10MΩ , More than 100MΩ 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
<b>Overload protection:</b> 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 <b>Frequency:</b> 40~400Hz <b>Overload protection:</b> 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
<b>Overload protection:</b> 250V DC or AC RMS		

CAPACITANCE		
RANGE	Accuracy	Resolution
40nF	± ( 3.0%+10 )	10pF
400nF	± ( 2.5%+5 )	100pF
4μF		1nF
40μF	± ( 5.0%+10 )	10nF
400μF		100nF
4000μF		10μF
<b>Overload protection:</b> 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 50Ω	Open circuit voltage approx. 0.5V
<b>Overload protection:</b> 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
<b>Sensitivity:</b> sine wave 0.6V RMS (10MHz: 1.5V RMS) <b>Overload protection:</b> 250V DC or AC RMS		

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