



AMPROBE®

AM-140 TRMS & AM-160 TRMS

Precision TRMS Digital Multimeters w/ PC Connection



"Patent Pending"

These "top of the line" digital multimeters are affordable without sacrificing an array of features and functions. From true RMS to PC Connectivity Amprobe's Precision DMMs excel in the professional environment.

- True RMS (TRMS)
- Optical isolated PC interface capability
- MAX, MIN MAX-MIN recording
- Peak hold
- Auto and manual ranging
- Intelligent auto power off
- Data hold
- Relative zero mode
- Audible and visual warning against improper plug-in
- DC Loop Current 4-20mA
- dBm reading with 20 selectable impedance values
- Backlight display
- Large, easy to read LCD display
- Diode Test
- Audible continuity
- Safety: CAT III 1000V, CAT IV 600V



FEATURES	AM-140	AM-160	ACCURACY
AC Voltage	500.00 mV 5.0000 / 50.000 / 500.00 / 1000.0 V		AM-140: $\pm (0.8\% \text{ Rdg} + 60 \text{ LSD}) @ 45 \text{ to } 300 \text{ Hz}^{**}$ AM-160: $\pm (0.8\% \text{ Rdg} + 20 \text{ LSD}) @ 45 \text{ to } 300 \text{ Hz}^{**}$
DC Voltage	500.00 mV 5.0000 / 50.000 / 500.00 / 1000.0 V		AM-140: $\pm (0.10\% \text{ Rdg} + 2 \text{ LSD})$ AM-160: $\pm (0.05\% \text{ Rdg} + 2 \text{ LSD})$
Resistance	500.00 Ohms 5.0000 / 50.000 / 500.00 kOhms 5.0000 / 50.00 0MOhms		AM-140: $\pm (0.10\% \text{ Rdg} + 6 \text{ LSD}) @ 500 \text{ Ohms to } 500 \text{ kOhms ranges}^{**}$ AM-160: $\pm (0.07\% \text{ Rdg} + 2 \text{ LSD}) @ 500 \text{ Ohms to } 500 \text{ kOhms ranges}^{**}$
AC Current	500.00 / 5000.0 uA 50.000 / 500.00 mA 5.0000 / 10.000 A		AM-140: $\pm (1.0\% \text{ Rdg} + 40 \text{ LSD}) @ 50 \text{ and } 60 \text{ Hz}^{**}$ AM-160: $\pm (0.5\% \text{ Rdg} + 50 \text{ LSD}) @ 50 \text{ and } 60 \text{ Hz}^{**}$
DC Current	500.00 / 5000.0 uA 50.000 / 500.00 mA 5.0000 / 10.000 A		$\pm (0.5\% \text{ Rdg} + 20 \text{ LSD})$
Frequency	5.0000 Hz to 200.000kHz		$\pm (0.002\% \text{ Rdg} + 4 \text{ LSD})$
Capacitance	50.00 / 500.0 nF 5.000 / 50.00 / 500.0 / 9999uF		$\pm (2.0\% \text{ Rdg} + 3 \text{ LSD}) @ 50 \text{ nF to } 50\text{uF ranges}^{**}$
Temperature	N/A	Dual thermocouple -58 F to 1832 F -50 C to 1000 C	$\pm (0.3\% \text{ Rdg} + 2 \text{ F})$ $\pm (0.3\% \text{ Rdg} + 1 \text{ C})$
Duty Cycle	0.1% to 99.99%		$\pm (3 \text{ LSD} / \text{kHz} + 2 \text{ LSD})$

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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 (AM-160 TRMS Only)	DKTA-620 and two of TPK-56
Single Input Thermocouple Temperature Attachment (Recommended for AM-140 TRMS)	TMA-K
Alligator Clips (For test leads)	VRC-320
PC Interface kit (PC connection cable with software)	RS-232 KIT1
Software	www.AMPROBE.com
USB to RS-232 Adapter	RS-USB
Carrying Case	CC-ACDC

REPLACEMENT PARTS (supplied with product)	PART NUMBER
Thermocouple (AM-160 TRMS Only)	TPK-59
Test leads with set of alligator clips (alligator clips are not supplied with product)	MTL-90B
Fuse 0.63A/500V IR 200kA for mA/uA terminal (AM-140 TRMS)	FA-6x32/.63
Fuse 12.5A/500V IR 20kA for Amp terminal (AM-140 TRMS)	FA-12.5A/500V
Fuse 1A/1000V IR 10kA for mA/uA terminal (AM-160 TRMS)	FA-1A/1000V
Fuse 15A/1000V IR 10kA or 11A/1000V IR 20kA for Amp terminal (AM-160 TRMS)	FA-15A/1000V
Instruction Manual	www.AMPROBE.com



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