AMPROBE®

Data Sheet



ACD-6 TRMS-PRO
1000A Clamp-on Multimeter

Simple to operate and well-suited for most basic applications. The TRMS version improves measurement accuracy in noisy electrical environments.



ACD-6 TRMS-PRO

- True RMS
- 1000 Amp AC current
- AC/DC voltage to 600V
- Resistance
- Continuity Beeper
- Relative zero mode
- Auto power off
- Data hold
- Carrying case included
- Large, easy to read LCD display
- Accommodates conductors up to 45mm (1.77") in diameter

No hassle warranty

No waiting.

No shipping charges.

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: $500 MSLP limit)

Value Testers
Value Priced Electronic Testers
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Electrical Specifications

Accuracy is ±(% reading digits + number of digits) or otherwise specified, at 23 °C ± 5 °C (73°F ± 9°F) & less than 75% R.H.

True RMS Model ACD-6 TRMS-PRO ACV & ACA clamp-on accuracies are specified from 5% to 100% of range or otherwise specified. Maximum Crest Factor are as specified below, and with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth for non-sinusoidal waveforms.

		Range	Accuracy
DC Voltage			
		400.0 mV	1.0% + 3d
		4.000V, 40.00V, 400.0V	1.7% + 3d
		600V	2.0% + 4d
NMRR :	>50dB @ 50/60Hz		
CMRR :	>120dB @ DC, 50/60Hz, Rs=1kΩ		
Input Impedance:	10MΩ, 30pF nominal (1000MΩ for 400.0mV range)		
Audible Continuity Tester			
Open Circuit Voltage:	0.4VDC typical	400.0Ω	1.5% + 6d
Audible threshold:			between 10Ω and 120Ω.
Resistance			
		400.0Ω	1.5% + 6d
		4.000kΩ, 40.00kΩ, 400.0kΩ	1.0% + 4d
		4.000MΩ	1.5% + 4d
		40.00MΩ	2.5% + 4d
Open Circuit Voltage:	0.4VDC typical		
AC Voltage			
	50Hz -- 500Hz	400.0mV [1)]	4.0% + 5d
	50Hz -- 60Hz	4.000V, 40.00V, 400.0V	2.0% + 5d
	60Hz -- 500Hz	4.000V, 40.00V, 400.0V	2.5% + 5d
	50Hz -- 500Hz	600V	3.0% + 5d
CMRR :	>60dB @ DC to 60Hz, Rs=1kΩ		
Input Impedance :	10MΩ, 30pF nominal		
Crest Factor: < 2.5 : 1 at full scale & < 5.0 : 1 at half scale			
[1)]Selection by RANGE button manually, and is specified from AC 40mV (AC 60mV for True RMS model ACD-6 TRMS-PRO) and up			
Diode Tester			
	Open Circuit < 1.6 VDC		
	Voltage Test Current (Typical) 0.4mA		
AC Current (Clamp-on)			
	50Hz / 60Hz	400.0A 1000A	1.5% + 5d 1.5% + 5d
Crest Factor: < 2.6 : 1 at full scale & < 5.2 : 1 at half scale			

[1)] Add 8d to specified accuracy while reading is below 15% of range

[2)] Induced error from adjacent current carrying conductor: < 0.06A/A

[3)] Specified accuracy is for measurements made at the jaw center. When the conductor is not positioned at the jaw center, position errors introduced are: Add 1% to specified accuracy for measurements made WITHIN jaw marking lines (away from jaw opening) Add 4% to specified accuracy for measurements made BEYOND jaw marking lines (toward jaws opening)

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General Specifications

Display :	3-3/4 digits 4000 counts LCD display
Update Rate :	3 per second nominal
Polarity :	Automatic
Low Battery :	Below approx. 2.4V
Operating Temperature :	0°C TO 40°C (32°F TO 104°F)
Relative Humidity :	Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
Altitude :	Operate below 6,562ft (2000m)
Storage Temperature :	-20°C to 60°C (-4°F to 140°F), < 80% R.H. (with battery removed)
Temperature Coefficient :	nominal 0.15 x (specified accuracy)/°C @ 0°C -18°C or 28°C -40°C (32°F - 64°F OR 82°F - 104°F), or otherwise specified
Sensing :	True RMS
Safety :	Meets EN61010-1:2001; IEC61010-2-032(1994), EN61010-2-032(1995), UL3111-2-032(1999). Category III 600 Volts AC & DC.
Transient protection :	6.5kV (1.2/50µs surge) for all models
Pollution degree :	2
E.M.C. :	Meets EN61326 In an RF field of 3V/m: Total Accuracy = Specified Accuracy + 45 digits Performance above 3V/m is not specified
Overload Protections :	ACA Clamp-on jaws : AC 1000A rms continuous + & COM terminals (all functions) : 600VDC/VAC rms
Power Supply :	One 3V coin battery (ANSI/NEDA-5004LC, IEC-CR2032)
Power Consumption :	ACD-6 TRMS-PRO: 2.8mA typical
APO Timing :	Idle for 30 minutes
APO Consumption :	40µA typical on all model functions voltage & current functions
Dimension :	L224mm X W78mm X H40mm
Weight :	220 gm approx
Jaw opening & Conductor diameter :	45mm max

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Included Accessories
Test leads MTL-90B, Carrying case SV-U, Users manual

Optional Accessories

ELS2A	Line splitter (Energizer)
ACF-3000AK	3000A AC Flexible Clamp-on Attachment
TMA-K	Single Input Thermocouple Temperature Attachment
VRC-320	Alligator Clips (For test leads)

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