



ACD-15 TRMS-PRO 2000A Clamp-on Multimeter

Wide range of measuring features built into one, professional meter. The TRMS version with backlight display, improves performance and reliability.

- True RMS
- Backlight
- Measurements: AC/DC Voltage up to 600V, AC Current up to 2000A Resistance, Frequency and Capacitance
- Non-contact Voltage Level Detection
- Audible continuity
- Auto-check feature automatically selects DCV, ACV or Resistance (Ω)
- Auto power off
- Low battery indication
- Data hold
- Large, easy to read LCD display
- Accommodates conductors up to 45mm (1.77") in diameter
- Carrying case, test leads, batteries (installed) and manual included
- Voltage overload protection for all functions up to 600V AC/DC

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)



ACD-15 TRMS-PRO 2000A Digital Clamp-on Multimeters

Data Sheet

Electrical Specifications

Accuracy is \pm (% reading digits + number of digits) or otherwise specified, at 23°C \pm 5°C & less than 75% R.H. True RMS Model ACD-15 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.

Function	Range	Accuracy
DC Voltage		
	6.000V	0.5% + 3d
	60.00V	1.0% + 5d
	600.0V	2.0% + 5d
NMRR :	>30dB @ 50/60Hz	
CMRR :	>100dB @ DC, 50/60Hz, Rs=1k Ω	
Hi-Z DCV Input Impedance:	5M Ω , 90pF nominal	
AutoCheck™ Lo-Z DCV input impedance:	Initially 1.6k Ω , 90pF nominal; Impedance increases significantly as display voltage increases from 50V (typical). Typical impedances vs display voltages for reference are: 15k Ω @ 100V; 100k Ω @ 300V; 210k Ω @ 600V	
AutoCheck™ DCV Threshold:	> +1.5VDC or < -1.0VDC nominal	
AC Voltage		
50Hz / 60Hz	6.000V, 60.00V	1.5% + 5d
	600.0V	2.0% + 5d
50Hz ~ 500Hz	6.000V, 60.00V	2.0% + 5d
	600.0V	2.5% + 5d
CMRR:	>60dB @ DC to 60Hz, Rs=1k Ω	
Hi-Z ACV Input Impedance:	5M Ω , 90pF nominal	
AutoCheck™ Lo-Z ACV input impedance:	Initially 1.6k Ω , 90pF nominal; Impedance increases significantly as display voltage increases from 50V (typical). Typical impedances vs display voltages for reference are: 5k Ω @ 100V; 100k Ω @ 300V; 210k Ω @ 600V	
AutoCheck™ ACV Threshold:	> 2VAC (50/60Hz) nominal. True RMS model ACD-15 TRMS-PRO Crest < 1.6 : 1 at full scale & < 3.3 : 1 at half scale	
Resistance		
	6.000k Ω ²⁾	1.2% + 6d ^{1) 3)}
	60.00k Ω , 600.0k Ω	1.0% + 4d
	6.000M Ω	2.0% + 4d
Open Circuit Voltage: 0.4VDC typical	¹⁾ Cool down interval 2 minutes after over 50V measurements in Auto-V Ω position ²⁾ Beeper on while reading < 0.025k Ω ³⁾ Add 40d to specified accuracy while reading is	
600 Ω with Continuity Beeper	600.0 Ω	2.0%+8d ¹⁾
Continuity Beeper Response:	< 100 μ s	
Open Circuit Voltage:	0.4VDC typical	
Audible Threshold:	between 10 Ω and 300 Ω ¹⁾ Add 40d to specified accuracy while reading is below 20% of range	
Frequency		
Range	Sensitivity (Sine RMS)	Voltage Range
10Hz ~ 30kHz	4V	6.000V
0Hz ~ 1kHz	30V ¹⁾	60.00V
10Hz ~ 1kHz	60V	600.0V
Accuracy:	0.5%+4d	
Max display:	9999 counts	



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Function	Range	Accuracy
Diode Tester		
Open Circuit Voltage	Test Current	
< 1.6 VDC	0.4mA (typical)	
Audible Threshold:	between 0.015V & 0.080V	
Capacitance		
	100.0nF ²⁾ , 1000nF,	3.5%+5d ^{1) 3)}
	10.00µF, 100.0µF, 2000µF	
1) Accuracies with film capacitor or better 2) Accuracy below 50nF is not specified 3) Specified with battery voltage above 2.8V (approximately half full battery). Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V		
Non-Contact EF-Detection		
Typical Voltage	Bar Graph Indication	
15V TO 85V	-	
40V TO 130V	--	
60V TO 210V	---	
90V TO 300V	----	
ABOVE 120V	-----	
Indication:	Bar graph segments & audible beep tones proportional to the field strength	
Detection Frequency:	50/60Hz	
Detection Antenna:	Top side of the stationary jaw	
Probe-Contact EF-Detection:	For more precise indication of live wires, use the Red (+) probe for direct contact measurements	
AC Current (Clamp-on)		
50Hz / 60Hz	400.0A, 2000A	1.5% + 5d ^{1) 2) 3)}
True RMS model ACD-15 TRMS PRO Crest Factor: < 2.0 : 1 at full scale & < 4.0 : 1 at half scale		
¹⁾ Add 8d to specified accuracy while reading is below 10% 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:	3-5/6 digits 6000 counts LCD display
Update Rate:	5 per second nominal
Polarity:	Automatic
Low Battery:	Below approx. 2.4V
Operating Temperature:	0°C to 40°C
Relative Humidity:	Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
Altitude:	Operating below 2000m
Storage Temperature:	-20°C to 60°C, < 80% R.H. (with battery removed)
Temperature Coefficient:	nominal 0.15 x (specified accuracy)/°C @ (0°C -18°C or 28°C -40°C), or otherwise specified
Sensing:	Average sensing
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 EN61326-1
In an RF field of 3V/m:	Capacitance function is not specified. Total Accuracy = Specified Accuracy + 45 digits Performance above 3V/m is not specified
Overload Protections:	ACA Clamp-on jaws: AC 2000A rms continuous + & COM terminals (all functions): 600VDC/VAC RMS
Power Supply:	standard 1.5V AAA Size (NEDA 24A or IEC LR03) battery X 2
Power Consumption:	2.8mA typical
APO Timing:	Idle for 3 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

Included Accessories

Test leads, carrying case and users manual

Optional Accessories

ELS2A	Line splitter (Energizer)
ACF-3000AK	3000A AC Flexible Clamp-On Attachment
TMA-K	Temperature Adapter
TL36A	Industry Test Leads with Threaded Alligator Clips

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ACD-16 TRMS-PRO 1000A Data-Logging Clamp-on Multimeter

Need the perfect tool to troubleshoot a system? The ACD-16 TRMS-PRO provides a full range of measurements, enhanced with data logging capabilities, to catch what the eye can't see. Double the efficiency, with an optional PC interface kit. True RMS for a more accurate signal in a noisy electrical environment.

- True RMS
- Backlight
- Measurements: AC/DC Voltage up to 600V, AC Current up to 1000A, Resistance, Frequency and Temperature
- Data-logging up to 5400 points
- Optional PC interface capability (RS-232 KIT2)
- Audible continuity
- Auto power off
- Data hold
- Large, easy to read digital display
- Accommodates conductors up to 45mm (1.77") in diameter
- Carrying case, Type k thermocouple, test leads, batteries (installed) and user manual included
- Voltage overload protection for all functions up to 600V AC/DC

No hassle warranty

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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)





ACD-16 TRMS-PRO 1000A Data-Logging Clamp-on Multimeter

Data Sheet

Electrical Specifications: Accuracy is \pm (% reading digits + number of digits) or otherwise specified, at 23 °C \pm 5 °C & less than 75% R.H. True RMS Models ACD-16 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, & with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth for non-sinusoidal waveforms. Fundamentals are specified at 50Hz and 60Hz.

Function	Range	Accuracy
AC Voltage		
50Hz / 60Hz	600.0 V	1.0% + 5d
45Hz ~ 500Hz	600.0 V	1.5% + 5d
500Hz ~ 3.1kHz 9	600.0 V	2.5% + 5d
CMRR:	>60dB @ DC to 60Hz, Rs=1k Ω	
Input Impedance:	2M Ω , 30pF nominal	
True RMS models Crest Factor:	< 2.3 : 1 at full scale & < 4.6 : 1 at half scale	
DC Voltage		
	600.0V	0.5% + 5d
NMRR:	>50dB @ 50/60Hz	
CMRR:	>120dB @ DC, 50/60Hz, Rs=1k Ω	
Input Impedance:	2M Ω , 30pF nominal	
Resistance		
	999.9 Ω	1.0% + 6d
Open Circuit Voltage:	0.4VDC typical	
Audible Continuity Tester		
Audible threshold:	between 10 Ω and 300 Ω .	
Response time:	250 μ s	
Frequency		
	5.00Hz ~ 500.0Hz	0.5%+4d
Sensitivity (Sine RMS)		
40A range: > 4A		
400A range: > 40A		
1000A range: > 400A		
600V range: > 30V		
Temperature		
	-50°C ~ 300°C	2.0% + 3°C ¹⁾
	-58°F ~ 572°F	2.0% + 6°F ¹⁾
¹⁾ Add 3°C (or 6°F) to specified accuracy @ -20°C ~ -50°C (or @ -4°F ~ -58°F) Type-K thermocouple range & accuracy not included		
AC Current (Clamp-on)		
50Hz / 60Hz	40.00A, 400.0A, 1000A	1.0% + 5d ^{1) 2) 3)}
45Hz ~500Hz	40.00A, 400.0A	2.0% + 5d ^{1) 2) 3)}
	1000A	2.5% + 5d ^{1) 2) 3)}
500Hz ~ 3.1kHz	40.00A, 400.0A	2.0% + 5d ^{1) 2) 3)}
	1000A	2.5% + 5d ^{1) 2) 3)}
True RMS models Crest Factor:		
< 2.5 : 1 at full scale & < 5.0 : 1 at half scale for 40.00A & 400.0A ranges < 1.4 : 1 at full scale & < 2.8 : 1 at half scale for 1000A range		
¹⁾ Add 8d to specified accuracy while reading is below 10% 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)		

General Specifications

Display:	3-5/6 digits, 6000 counts LCD display
Update:	5 per second nominal
Relative Humidity:	Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
Altitude:	Operating below 2000m
Storage Temperature:	-20°C to 60°C, < 80% R.H. (with battery removed)
Temperature Coefficient:	nominal 0.15 x (specified accuracy)/ °C @ (0°C -18°C or 28°C -40°C), or otherwise specified
Sensing:	True RMS sensing
Safety:	Meets EN61010-1, 201; 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)
Pollution degree:	2
E.M.C.:	Meets EN61326-1
In an RF field of 3V/m:	Total Accuracy = Specified Accuracy + 45 digits Performance; above 3V/m is not specified
Overload Protections :	
AC Clamp-on jaws:	AC 1000A RMS continuous + & COM terminals (all functions): 600VDC/VAC RMS
Power Supply:	standard 1.5V AAA Size (NEDA 24A or IEC LR03) battery X 2
Power Consumption:	
Voltage & ACA functions:	3.5mA typical
Ohm & Temperature functions:	4mA typical
APO Timing:	Idle for 16 minutes
APO Consumption:	10µA typical
Dimension:	L224mm X W78mm X H40mm
Weight:	224 gm approx
Jaw opening & Conductor diameter:	45mm max
Special features:	Display Backlight; Auto-Hold; Display Hold; On screen stand alone Hi-Lo logging (5400 minutes) at sampling speed of faster than: 20 per second for Voltage & ACA functions 4 per second for Ohm & Temperature functions 2 per second for Hz function



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Data Sheet

Included Accessories

MTL-90B Test leads, TPK-59 banana plug type-K thermocouple, batteries, carrying case and users manual

Optional Accessories

RS-232 KIT2

PC Interface kit (PC connection cable with software)

ELS2A

Line splitter (Energizer)

DKTA-620 and two of TPK-56

Dual input Thermocouple adapter with two thermocouples -50°F to 600°F

TL36A

Heavy duty test leads with threaded alligator clips

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