



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AMPROBE®

ACD-15 Pro & ACD-15 TRMS Pro 2000A Digital Clamp-on Multimeters



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

- TRMS & Backlight Screen (ACD-15 TRMS Pro only)
- Measurements: AC/DC Voltage up to 600V, AC Current up to 2000A, Resistance, Frequency and Capacitance
- Non-contact Voltage Level Detection
- Diode Test
- Audible continuity
- Auto-check feature automatically selects DCV, ACV or Resistance (W)
- Auto and manual ranging
- Auto power off
- Automatic polarity
- Low battery indication
- Data hold
- Large, easy to read LCD display
- Accommodates conductors up to 1.77" (45mm) in diameter
- Carrying case, test leads, batteries (installed) and manual included
- Voltage overload protection for all functions up to 600V AC/DC
- Safety CAT III 600V

FEATURES	ACD-15	ACD-15 TRMS	ACCURACY
TRMS Measurement	N/A	Yes	
AC Current	400.0 / 2000 A		+/- (1.5% Rdg + 5 LSD) @ 50 and 60Hz
AC/DC Voltage	6.000 / 60.00 / 600V		+/- (2.0% Rdg + 5 LSD) @ DC & 50 / 60 Hz**
Resistance	6.000 / 60.00 / 600.0 kOhms 6.000 MOhms		+/- (1.0% Rdg + 4 LSD) @ 60.00 to 600.0 kOhms ranges**
Frequency	10Hz to 1kHz		0.5%+4d
Capacitance	100.0, 1000 nF 10.00, 100.0, 2000 _F		3.5%+5d
Non-contact Voltage	15V to 85V - 40V to 130V -- 60V to 210V --- 90V to 300V ---- Above 120V -----		

**For other ranges see website (<http://www.AMPROBE.com>)

OPTIONAL ACCESSORIES	PART NUMBER
Line splitter (Energizer)	A47L
5000A Clamp-on Current Transformer (50 to 1)	CT50-1
3000A Clamp-on Current Transformer (50 to 1)	CT50-2
3000A AC Flexible Clamp-On Attachment	ACF-3000AK
Temperature Adapter	TMA-K
Alligator Clips (For test leads)	VRC-320

REPLACEMENT PARTS	PART NUMBER
(supplied with product)	
Test leads with set of alligator clips (alligator clips are not supplied with product)	MTL-90B
Carrying case	SV-U
Instruction Manual	www.AMPROBE.com



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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: -20OC to 60OC, < 80% R.H. (with battery removed)
Temperature Coefficient: nominal 0.15 x (specified accuracy)/OC @(0OC -18OC or 28OC -40OC), or otherwise specified
Sensing: Average sensing for ACD-15 PRO; True RMS sensing for ACD-15 TRMS PRO
Safety: Meets IEC61010-2-032(1994), EN61010-2-032(1995), UL3111-2-032(1999). Category III 600 Volts AC & DC
Transient Protection: 6.5kV (1.250µs surge) for all models
Pollution Degree: 2
E.M.C.: Meets EN61326(1997, 1998/A1), EN61000-4-2(1995), and EN61000-4-3(1996)
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: 2.2mA typical for ACD-15 PRO; 2.8mA typical for ACD-15 TRMS PRO
APO Timing: Idle for 3 minutes
APO Consumption: 40µA typical on all model functions except that 230µA typical on ACD-15 TRMS PRO voltage & current functions
Dimension: L224mm X W78mm X H40mm
Weight: 220 gm approx
Jaw opening & Conductor Diameter: 45mm max
Accessories: Test leads (pair), batteries installed, user's manual, & soft carrying pouch
Electrical Specifications: Accuracy is ±(% reading digits + number of digits) or otherwise specified, at 23 OC ±5 OC & 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.

Ohms	
RANGE	Accuracy ¹⁾
6.000kΩ ²⁾	1.2% + 6d ³⁾
60.00kΩ, 600.0kΩ	1.0% + 4d
6.000MΩ	2.0% + 4d
Open Circuit Voltage: 0.4VDC typical	
¹⁾ Cool down interval 2 minutes after over 50V measurements in Auto-VΩ position	
²⁾ Beeper on while reading < 0.025kΩ	
³⁾ Add 40d to specified accuracy while reading is	

DC Voltage	
RANGE	Accuracy
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=1kΩ Hi-Z DCV Input Impedance: 5MΩ, 90pF nominal AutoCheck™ Lo-Z DCV input impedance: Initially 1.6kΩ, 90pF nominal; Impedance increases significantly as display voltage increases from 50V (typical). Typical impedances vs display voltages for reference are: 15kΩ @ 100V 100kΩ @ 300V 210kΩ @ 600V AutoCheck™ DCV Threshold: > +1.5VDC or < -1.0VDC nominal	

600Ω with Continuity Beeper	
RANGE	Accuracy
600.0Ω	2.0%+8d ¹⁾
Continuity Beeper Response: < 100µs Open Circuit Voltage: 0.4VDC typical Audible Threshold: between 10Ω and 300Ω ¹⁾ Add 40d to specified accuracy while reading is below 20% of range	

Frequency		
Voltage Range	Sensitivity (Sine RMS)	Range
6.000V	4V	10Hz ~ 30kHz
60.00V	30V	10Hz ~ 1kHz
600.0V	60V	10Hz ~ 1kHz
Accuracy: 0.5%+4d Max display: 9999 counts		

AC Voltage	
RANGE	Accuracy
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=1kΩ Hi-Z ACV Input Impedance: 5MΩ, 90pF nominal AutoCheck™ Lo-Z ACV input impedance: Initially 1.6kΩ, 90pF nominal; Impedance increases significantly as display voltage increases from 50V (typical). Typical impedances vs display voltages for reference are: 15kΩ @ 100V 100kΩ @ 300V 210kΩ @ 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	

Diode Tester	
Open Circuit Voltage	Test Current
< 1.6 VDC	0.4mA (typical)
Audible Threshold: between 0.015V & 0.080V	

Capacitance	
Range	Accuracy ¹⁾
100.0nF ²⁾ , 1000nF, 10.00µF, 100.0µF, 2000µF	3.5%+5d ³⁾
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	

ACA Current (Clamp-on)	
RANGE	Accuracy ^{1) 2) 3)}
50Hz / 60Hz	
400.0A, 2000A	1.5% + 5d
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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