

Data Sheet



ACD-14 PLUS 600A Clamp-On Multimeter with Dual Display

The ACD-14 PLUS is the professionals' choice for both **HVAC** and **Electrical** applications due to its complete set of measuring features. Its dual displays allows viewing amperage and voltage simultaneously. The ACD-14 PLUS meter offers thinner jaws over standard clamp meters. Allowing access to tight measurement areas and still accommodating conductors up to 28 mm. Both meters also measure Capacitance and Frequency. Very versatile clamp multimeters to support all your daily measurement needs.

No hassle warranty

No waiting.

No shipping charges.



(note: \$500 MSLP limit)

- Dual Displays Permits simultaneous reading of Amperage & Voltage
- AC Current to 600A
- New thin jaws, 5mm thinner than others to access tight measurement spaces
- Micro Amps measurement for testing Flame Sensors
- Capacitance to 3000 µF
- Temperature with Type-K Thermocouple probe
- AC and DC Voltage to 600V
- Resistance to $40M\Omega$
- Continuity Buzzer
- Frequency measurement
- Diode test
- Hold and Maximum reading functions
- In rush current
- Accommodates conductors up to 28 mm (1.1") in diameter
- Auto ranging
- Auto power off and low battery indication
- Rubber over-molded case











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General Specifications

Display:	3-3/4 digits 4000 counts, dual LCD displays
Update Rate:	3 per second nominal
Polarity:	Automatic
Low Battery Indication:	Below approx. 2.4V
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Relative Humidity:	Maximum relative humidity 80% for temperatures up to 31°C (88°F) decreasing linearly to 50% relative humidity at 40°C (104°F)
Altitude:	Indoor operation below 2000m (6,562 ft)
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)/°F @ 0°C - 18°C or 28°C - 40°C
	(32°F -64°F or 82°F - 104°F), or otherwise specified
Sensing:	Average sensing for ACD-14 PLUS
Power Supply:	Two 3V alkaline button batteries (ANSI/NEDA-5004LC, IEC-CR2032).
Battery Life:	95 hours approx. (in DCV mode)
Power Consumption:	2.5 mA typical for ACD-14 PLUS
Low Battery Indication:	Below approx. 2.4V (battery symbol appears in upper right)
Auto Power Off:	After being idle for 30 minutes
APO Consumption:	ACD-14 PLUS: 0.8μA typical except 25μA typical for temperature function
Safety:	CE EN61010-1, EN61010-2-032 - Pollution Degree 2
Transient Protection:	6.5kV (1.2/50µs surge) for all models
E.M.C.:	Meets EN61326
Overload Protections: RMS	ACA Clamp-on jaws: AC 600A RMS continuous "+" & "COM" terminals (all functions): 600VDC/VAC
Dimension:	L190mm X W 63mm X H 32mm (L 7.48" X W 2.48" X H 1.25")
Weight:	204 g (0.450 lb approx.)
Jaw opening & Conductor diameter:	28 (1.1") max

Electrical Specifications 23°C ± 5°C (73°F ± 9°F) & < 75% R.H.

Function	Range	Accuracy
DC Voltage		
	400.0 mV	± (0.3% rdg + 4 digits)
	4.000V, 40.00V, 400.0V	± (0.5% rdg + 3 digits)
	600V	± (1.0% rdg + 4 digits)
	NMRR:	>50dB @ 50/60Hz
	CMRR:	>120dB @ DC, 50/60Hz, Rs=1kΩ
	Input Impedance:	10M Ω , 30pF nominal (1000M Ω for 400.0mV range)
AC Voltage [50Hz 50	00Hz] Average sensing	
	4.000V, 40.00V, 400.0V	± (1.5% rdg + 5 digits)
	600V	± (2.0% rdg + 5 digits)
	CMRR:	>60dB @ DC to 60Hz, Rs=1k Ω
	Input Impedance:	10M Ω , 30pF nominal
AC Current (Clamp-on) [50Hz / 60Hz]	
	40.00A	± (1.5% rdg + 8 digits)
	400.0A	± (1.5% rdg + 8 digits)
	600A	± (1.5% rdg + 8 digits)*
*Accuracy specified to 6	00A continuous.	



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Electrical Specification Accuracy (23 °C ± 5 °C & < 75% R.H.), cont.

Function	Range		Accuracy
Max/Hold (AC Current only)	Specified accuracy ± 50 digits for	or changes > 25r	ns in duration
Ohms		<u> </u>	
	400.0Ω		± (0.8% rdg + 8 digits)
	4.000kΩ, 40.00kΩ, 400.0kΩ		± (0.6% rdg + 4 digits)
	4.000MΩ		± (1.0% rdg + 4 digits)
	40.00MΩ		± (2.0% rdg + 4 digits)
Open Circuit Voltage:	0.4VDC typical		
Audible Continuity Tester	Audible threshold: between 10	Ω and 120 Ω .	
Capacitance			
	500.0nF, 5.000μF, 50.00μF,		
	500.0μF, 3000μF*		± (3.5% rdg + 6 digits)***
Additional 50.00nF range accura	acy is not specified		
*Accuracies with film capacitor of	or better		
***Specified with battery voltage varning voltage of approximatel		ull battery). Accı	uracy decreases gradually to 12% at low batter
ΟC μΑ			
Range	Accuracy		Burden Voltage
400.0μA	± (2.0% rdg + 4 digits)		2.8mV/μA
2000μΑ	± (1.2% rdg + 3 digits)		2.8mV/μA
AC μA (50Hz - 500Hz)			
Range	Accuracy		Burden Voltage
400.0µA	± (2.0% rdg + 5 digits)		2.8mV/μA
2000μΑ	± (1.5% rdg + 5 digits)		2.8mV/μA
	y)		
requency (Voltage input onl		Sensitivity	Accuracy
requency (Voltage input onl	Range	Sensitivity	Accuracy
	Range 10Hz to 2kHz	300mV	± (0.5% rdg + 4 digits
Volts			·
Volts 400.0mV	10Hz to 2kHz	300mV	± (0.5% rdg + 4 digits
Volts 400.0mV 4.000V	10Hz to 2kHz 5Hz to 40kHz	300mV 4V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz	300mV 4V 28V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V Piode Tester	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V Piode Tester Open Circuit Voltage < 1.6 VDC	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz Test Current (Typical) 0.25mA	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V Piode Tester Open Circuit Voltage < 1.6 VDC	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz Test Current (Typical) 0.25mA	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V Diode Tester Open Circuit Voltage < 1.6 VDC	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz Test Current (Typical) 0.25mA	300mV 4V 28V 100V	± (0.5% rdg + 4 digits)
400.0mV 4.000V 40.00V 400.0V 600V Diode Tester Open Circuit Voltage	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz Test Current (Typical) 0.25mA couple) Range	300mV 4V 28V 100V	± (0.5% rdg + 4 digits)
Volts 400.0mV 4.000V 40.00V 400.0V 600V Diode Tester Open Circuit Voltage < 1.6 VDC	10Hz to 2kHz 5Hz to 40kHz 5Hz to 100kHz 5Hz to 100kHz 5Hz to 5kHz Test Current (Typical) 0.25mA couple) Range -20°C to 300°C	300mV 4V 28V 100V	± (0.5% rdg + 4 digits ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) Accuracy* ± (2% rdg + 3 °C)



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Included Accessories

Test Leads, Carrying Case, Bead Type, Thermocouple with banana plug, Users Manual

Optional Accessories

ELS2A Line splitter

ACF-3000AK 3000A AC Flexible Clamp-On Attachment

TA-1A Temperature Adapter

TL36A Heavy Duty Test Leads with Threaded Alligator Clips





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