HARD AT WORK SINCE 1948.

# ACD-14 PLUS 99 Washington St. Melrose MA, 02176 1.800.517.8431 | 781.665.0780 (Fax) O Visit us at www.TestEquipmentDepot.com With Dual Display

### Easy-To-Use

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 25 mm. Both meters also measure Capacitance and Frequency. Very versatile clamp multimeters to support all your daily measurement needs.

- 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 40MΩ

- Continuity Buzzer
- Frequency measurement
- Diode test

Test Equipment Depot

- · Hold and Maximum reading functions
- In rush current
- Accommodates conductors up to 25 mm (1.0") in diameter
- Auto ranging
- Auto power off and low battery indication
- Rubber over-molded case

### **ACD-14 PLUS SPECIFICATIONS**

Specifications	Range			
Display	3-3/4 digits 4000 counts, dual LCD displays			
Update Rate	3 per second nominal			
Polarity	Automatic			
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)			
Power Supply	Two 3V alkaline button batteries (ANSI/NEDA-5004LC, IEC-CR2032).			
Battery Life	95 hours approx. (in DCV mode)			
Safety	CE EN61010-1, EN61010-2-032 - Pollution Degree 2			
E.M.C.	Meets EN61326			
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.)			
Included Accessories	Test Leads, Carrying Case, Bead Type, Thermocouple with banana plug, Users Manual			

For more detailed specifications see users manual.



Test Equipment Depot
99 Washington St. Melrose MA, 02176
1.800.517.8431 | 781.665.0780 (Fax)

HARD AT WORK SINCE 1948. 

⊕ Visit us at www.TestEquipmentDepot.com

## **ACD-14 PLUS DETAILED SPECIFICATIONS**

Specifications	Range				
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	25 (1.0") max				
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				

## ELECTRICAL SPECIFICATIONS 23°C ± 5°C (73°F ± 9°F) & < 75% R.H.

Specifications	Range		
DC Voltage	$400.0 \text{ mV} \pm (0.3\% \text{ rdg} + 4 \text{ digits})$ $4.000V$ , $40.00V$ , $400.0V \pm (0.5\% \text{ rdg} + 3 \text{ digits})$ $600V \pm (1.0\% \text{ rdg} + 4 \text{ digits})$ NMRR: >50dB @ 50/60Hz CMRR: >120dB @ DC, 50/60Hz, Rs=1kΩ Input Impedance: $10M\Omega$ , $30pF$ nominal $(1000M\Omega$ for $400.0mV$ range)		
AC Voltage [50Hz 500Hz] Average sensing	$4.000V$ , $40.00V$ , $400.0V \pm (1.5\% \text{ rdg} + 5 \text{ digits})$ $600V \pm (2.0\% \text{ rdg} + 5 \text{ digits})$ CMRR: >60dB @ DC to 60Hz, Rs=1k $\Omega$ Input Impedance: $10M\Omega$ , $30pF$ 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 600A continuous.		



HARD AT WORK SINCE 1948.



# **ELECTRICAL SPECIFICATIONS** (23 °C ± 5 °C & < 75% R.H.), cont.

Specifications	Range						
Max/Hold (AC Current only)	Specified accuracy ± 50 digits for changes > 25ms in duration						
Ohms	$400.0Ω \pm (0.8\% \text{ rdg} + 8 \text{ digits})$ $4.000kΩ, 40.00kΩ, 400.0kΩ \pm (0.6\% \text{ rdg} + 4 \text{ digits})$ $4.000MΩ \pm (1.0\% \text{ rdg} + 4 \text{ digits})$ $40.00MΩ \pm (2.0\% \text{ rdg} + 4 \text{ digits})$ Open Circuit Voltage: 0.4VDC typical						
Capacitance	Audible Continuity Tester: Audible threshold: between 10Ω and 120Ω.  500.0nF, 5.000μF, 50.00μF, 500.0μF, 3000μF* ± (3.5% rdg + 6 digits)***  *Additional 50.00nF range accuracy is not specified  **Accuracies with film capacitor or better  ***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						
DC μA	400.0μA ±	Accuracy ± (2.0% rdg + 4 digits) ± (1.5% rdg + 3 digits)		Burden Voltage 2.8mV/μA 2.8mV/μA			
AC μA (50Hz - 500Hz)	400.0μA ±	Accuracy ± (2.0% rdg + 5 digits) ± (1.5% rdg + 5 digits)		Burden Voltage 2.8mV/μA 2.8mV/μA			
Frequency (Voltage input only)	400.0mV 10 4.000V 5 40.00V 5	0Hz to 2kHz Hz to 40kHz Hz to 100kHz	Sensitivity 300mV 4V 28V 100V	ty Accuracy ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits) ± (0.5% rdg + 4 digits)			
Diode Tester	Open Circuit Voltage: < 1.6 VDC Test Current (Typical): 0.25mA						
Temperature (Type-K Thermocouple)	Range Accuracy* $-20^{\circ}\text{C to } 300^{\circ}\text{C} \qquad \pm (2\% \text{ rdg} + 3 ^{\circ}\text{C})$ $301 ^{\circ}\text{C} \sim 537 ^{\circ}\text{C} \qquad \pm (3\% \text{ rdg} + 3 ^{\circ}\text{C})$ $-4^{\circ}\text{F to } 572^{\circ}\text{F} \qquad \pm (2\% \text{ rdg} + 6 ^{\circ}\text{F})$ $573 ^{\circ}\text{F} \sim 999 ^{\circ}\text{F} \qquad \pm (3\% \text{ rdg} + 6 ^{\circ}\text{F})$ *Type-K thermocouple range & accuracy not included						

For complete specs please download the product datasheet and the product manual on www.Amprobe.com.