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# No hassle warranty

NO HASSLI

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-23SW Swivel Clamp Meter

New patented rotating head clamp design allows easy viewing of measurements in tight or inconvenient to reach places. Simply rotate the body of the meter to get an unobstructed view of the LCD display. Rich set of features and CAT III 600V safety reading for use in electrical and HVAC applications.

- TRMS Measurement
- 180 degree rotating head for the perfect display viewing
- Advanced VoltTect non-contact voltage detection
- Slim jaw design with one hand operation
- Measures AC Current up to 400 ACA, AC/DC, Voltage up to 600V, Resistance and Capacitance
- Temperature measurement
- Audible continuity
- Auto and manual ranging respectively for quick checks and precise measurements
- Auto power off
- Data hold
- Accommodates conductors up to 1.18" (30mm) in diameter
- Safety CAT III 600 V
- Test leads, battery (installed), Users Manual, Carrying Case and type-K thermocouple are included with the product





### ACD-23SW Swivel Clamp Meter

## Data Sheet

### **General Specifications**

Display	3¾ digit liquid crystal display (LCD) with a maximum reading of 3999.
Polarity	Automatic, positive implied, negative polarity indication.
Overrange	(OL) or (-OL) is displayed.
Zero	Automatic.
Low battery indication	The " $\square$ " is displayed when the battery voltage drops below the operating level.
Auto power off	Approx. 10 minutes.
Measurement rate	2 times per second, nominal.
Operating Environment	0°C to 50°C / 32°F to 122°F at <70% relative humidity.
Storage Ttemperature	-20°C to 60° / -4°F to 140°F, 0 to 80% R.H. with battery removed from meter.
Accuracy	Stated accuracy at 74°F ±8°F, <75% relative humidity.
Temperature Coefficient	0.1 × (specified accuracy) per °F, (32°F to 66°F, 82°F to 122°F).
Altitude	6561.7 Feet (2000m).
Jaw opening capability	30mm (1.18 in) conductor.
Power	1.5 volt battery x2, R03/SIZE AAA.
Isolated battery compartment.	
Battery life	150 hours typical with carbon-zinc. 300 hours typical with alkaline.
Dimensions	306 × 135 × 30mm (12 × 5.3 × 1.2 in).
Weight	Approx. 157g (1.26lb) including battery.
Safety	Designed to meet IEC 61010-1 (EN61010-1) and IEC 61010-2-032 (EN61010-2-032), CATIII 600V class II and pollution degree 2 indoor use comply with CE , UL

### **Electrical Specifications**

Ranges     4V, 40V, 400V, 600V       Resolution     1mV       Accuracy     ±(1.2% rdg + 5 dgts)       ±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms	
Input Impedance   400mV:>100MΩ; 4V:10MΩ;40V~600V:9.1MΩ     Overload Protection   600V DC or AC rms to measure millivolts, use "RANGE " button to manually select     AC Volts (50Hz - 500Hz)   Ranges     Ranges   4V, 40V, 400V, 600V     Resolution   1mV     Accuracy   ±(1.2% rdg + 5 dgts)     ±(2% rdg + 5 dgts) on 600V range   1mput Impedance     Input Impedance   4V:10MΩ;40V~600V:9.1MΩ     Overload Protection   600V DC or AC rms     AC Current (50Hz - 60Hz)   40A , 400A     Ranges   40A , 400A     Resolution   0.01A	
Overload Protection600V DC or AC rms to measure millivolts, use "RANGE " button to manually selectAC Volts (50Hz - 500Hz)4V, 40V, 400V, 600VRanges4V, 40V, 400V, 600VResolution1mVAccuracy±(1.2% rdg + 5 dgts)±(2% rdg + 5 dgts) on 600V rangeInput Impedance4V:10MΩ;40V~600V:9.1MΩOverload Protection600V DC or AC rmsAC Current (50Hz - 60Hz)40A , 400ARanges40A , 400AResolution0.01A	
AC Volts (50Hz - 500Hz)     4V, 40V, 400V, 600V       Ranges     4V, 40V, 400V, 600V       Resolution     1mV       Accuracy     ±(1.2% rdg + 5 dgts)       ±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms       AC Current (50Hz - 60Hz)     40A , 400A       Ranges     40A , 400A       Resolution     0.01A	
Resolution     1mV       Accuracy     ±(1.2% rdg + 5 dgts)       ±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms       AC Current (50Hz - 60Hz)     40A , 400A       Resolution     0.01A	400mV range.
Resolution     1mV       Accuracy     ±(1.2% rdg + 5 dgts)       ±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms       AC Current (50Hz - 60Hz)     40A , 400A       Ranges     40A , 400A       Resolution     0.01A	
Accuracy     ±(1.2% rdg + 5 dgts)       ±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms         AC Current (50Hz - 60Hz)     40A , 400A       Ranges     40A , 400A       Resolution     0.01A	
±(2% rdg + 5 dgts) on 600V range       Input Impedance     4V:10MΩ;40V~600V:9.1MΩ       Overload Protection     600V DC or AC rms       AC Current (50Hz - 60Hz)     40A , 400A       Ranges     40A , 400A       Resolution     0.01A	
Input Impedance 4V:10MΩ;40V~600V:9.1MΩ   Overload Protection 600V DC or AC rms   AC Current (50Hz - 60Hz) Ranges   Ranges 40A , 400A   Resolution 0.01A	
Overload Protection 600V DC or AC rms   AC Current (50Hz - 60Hz) 40A , 400A   Resolution 0.01A	
AC Current (50Hz - 60Hz) Ranges 40A , 400A Resolution 0.01A	
Ranges     40A, 400A       Resolution     0.01A	
Resolution 0.01A	
Accuracy ±(2.0% rdg + 10 dgts) 50 ~ 60Hz	
Overload Protection 400A AC	



### ACD-23SW Swivel Clamp Meter

# Data Sheet

### Resistance

Resistance	
Ranges	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ
Resolution	0.1Ω
Accuracy	±(1.0% rdg + 5 dgts) on 400 $\Omega$ to 400k $\Omega$ ranges
	$\pm$ (1.5% rdg + 5 dgts) on 4M $\Omega$ range
	±(3.0% rdg + 5 dgts) on 40M $\Omega$ range
Open Circuit Volts	-0.45V DC typical, (-1.2Vdc on 400 $\Omega$ range)
Overload Protection	600V DC or AC rms
Capacitance	
Ranges	4uF , 40uF , 400uF , 4mF
Resolution	1nF
Accuracy	±(3.0% rdg + 15 dgts)
Minimum Input Range	>100nF
Overload Protection	600V DC or AC rms when the capacitor to be tested is connected, if "dsc" symbol is indicated on LCD, it means there is voltage existing in the tested capacitor and needs to be discharged before testing.
Temperature	
Range	-30°F ~ 400°F, -35°C ~ 400°C
Resolution	0.1°F, 0.1°C
Accuracy	±(1% + 2°F) 32°F ~ 400°F ±(1% + 1°C) 0°C ~ 200°C
	±(2% + 6°F) -30°F ~ 32°F ±(2% +3°C) -35°C ~ 0°C
Sensor Type	K-type themocouple
Overload Protection	60V DC or 30V AC rms
Continuity	
Range	400Ω
Resolution	1Ω
Audible Indication:	Less than 25 $\Omega$
Response Time	500ms
Overload Protection	500V DC or AC rms
Non-Contact Voltage Indicator	Senses voltage 70V to 600VAC (50Hz ~ 60Hz), beeper chirps and big bright red LED comes on, works
	when meter dial is on any range.
Auxiliary Features	
Hold	Freeze the latest reading on the display.
Range	Excute manual range mode.
Disable Auto Power Off	Set the DMM to off position, press (RANGE) button, and hold the (RANGE) button while turning the rotary knob to the desired range position. Release the button when LCD displays normally. Note "APO" annunciator is missing from the LCD. The Auto Power Off mode is activated with an "APO" symbol indicating on LCD.



### **ACD-23SW Swivel Clamp Meter**

Data Sheet

Included Accessories One pair test leads 1.5V battery x2 (installed) Carrying case TPK01 thermocouple Users Manual

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