



# ACD-23SW Swivel™ Clamp Meter with True-rms

**Easily view measurements in hard to reach places**

The 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 SPECIFICATIONS

Specifications	ACD-23SW
Display	3½ 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 "□" is displayed when the battery voltage drops below the operating level.
Auto power off	Approximately 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 Temperature	-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	Approximately 157g (1.26lb) including battery.
Weight	2 times per second, nominal.
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

For more detailed specifications see users manual.

## ACD-23SW ELECTRICAL SPECIFICATIONS

DC Volts	
Ranges	400mV, 4V, 40V, 400V, 600V
Resolution	0.1mV
Accuracy	$\pm(0.5\% \text{ rdg} + 2 \text{ dgts})$
Input Impedance	400mV: $>100\text{M}\Omega$ ; 4V: $10\text{M}\Omega$ ;40V~600V: $9.1\text{M}\Omega$
Overload Protection	600V DC or AC rms to measure millivolts, use "RANGE " button to manually select 400mV range

AC Volts (50Hz - 500Hz)	
Ranges	4V, 40V, 400V, 600V
Resolution	1mV
Accuracy	$\pm(1.2\% \text{ rdg} + 5 \text{ dgts})$ $\pm(2\% \text{ rdg} + 5 \text{ dgts})$ on 600V range
Input Impedance	4V: $10\text{M}\Omega$ ;40V~600V: $9.1\text{M}\Omega$
Overload Protection	600V DC or AC rms

AC Current (50Hz - 60Hz)	
Ranges	40A , 400A
Resolution	0.01A
Accuracy	$\pm(2.0\% \text{ rdg} + 10 \text{ dgts})$ 50 ~ 60Hz
Overload Protection	400A AC

Resistance	
Ranges	400 $\Omega$ , 4k $\Omega$ , 40k $\Omega$ , 400k $\Omega$ , 4M $\Omega$ , 40M $\Omega$
Resolution	0.1 $\Omega$
Accuracy	$\pm(1.0\% \text{ rdg} + 5 \text{ dgts})$ on 400 $\Omega$ to 400k $\Omega$ ranges $\pm(1.5\% \text{ rdg} + 5 \text{ dgts})$ on 4M $\Omega$ range $\pm(3.0\% \text{ rdg} + 5 \text{ dgts})$ 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	4 $\mu\text{F}$ , 40 $\mu\text{F}$ , 400 $\mu\text{F}$ , 4mF
Resolution	1nF
Accuracy	$\pm(3.0\% \text{ rdg} + 15 \text{ dgts})$
Minimum Input Range	$>100\text{nF}$
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	
Ranges	-30°F ~ 400°F, -35°C ~ 400°C
Resolution	0.1°F, 0.1°C
Accuracy	$\pm(1\% + 2^\circ\text{F})$ 32°F ~ 400°F $\pm(1\% + 1^\circ\text{C})$ 0°C ~ 200°C $\pm(2\% + 6^\circ\text{F})$ -30°F ~ 32°F $\pm(2\% + 3^\circ\text{C})$ -35°C ~ 0°C
Sensor Type	K-type thermocouple
Overload Protection	60V DC or 30V AC rms

## ACD-23SW ELECTRICAL SPECIFICATIONS

Continuity	
<b>Ranges</b>	400Ω
<b>Resolution</b>	1Ω
<b>Audible Indication</b>	Less than 25Ω
<b>Response Time</b>	500ms
<b>Overload Protection</b>	500V DC or AC rms
<b>Non-Contact Voltage Indicator</b>	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	
<b>Hold</b>	Freeze the latest reading on the display.
<b>Range</b>	Excute manual range mode.
<b>Disable Auto Power Off</b>	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.

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