

User Manual



# 9200B 300A AC TRMS Clamp



# Introduction

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Congratulations on your purchase of the Triplet 9200B 300A True RMS AC Current Clamp meter. The True RMS AC/ Current Clamp meter features:

- 3-3/4digit (4000 count) LCD display
- White LED backlight
- Data HOLD
- Built-in non-contact AC voltage detector plus flashlight
- Autoranging with auto power off

## Safety

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### International Safety Symbols



This symbol, adjacent to another symbol or terminal, indicates the user must refer to the manual for further information.



This symbol, adjacent to a terminal, indicates that, under normal use, hazardous voltages may be present



Double Insulation

This meter has been designed to be safe in use, but the operator must use caution in its operation. The rules listed below should be carefully followed for safe operation.

### SAFETY NOTES

- Do not exceed the maximum allowable input range of any function.
- When the instrument is not in use, press the ON/OFF key to turn off the meter.
- Remove the battery if meter is to be stored for longer than 60 days.
- NEVER apply voltage or current to the meter that exceeds the specified maximum:
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- USE EXTREME CAUTION** when working with voltages greater than 25VAC rms. These voltages are considered a shock hazard.
- NEVER operate the meter unless the back cover and the battery/fuse door are in place and fastened securely**

Input Limits	
Function	Maximum Input
AC Current	300A

### Meter Description

- Current Clamp
- Clamp Trigger
- Non-contact AC Voltage Indicator Sensor
- Power Button
- Data HOLD/Backlight Button
- LCD Display
- Wrist Lanyard



### Display Description



Data Hold

Minus sign

Negative reading display

0 to 3999

Measurement display digits

AUTO

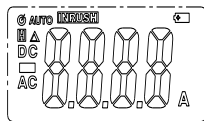
Auto Range mode

AC

Alternating Current



Low battery

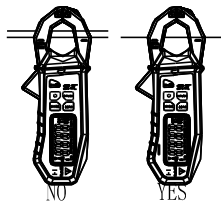


## Operation

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### AC Current Measurements

- 1) Set the Function switch to the ACA range.
- 2) Press the jaw trigger and clamp around, a single conductor.
- 3) Do not allow a gap between the two halves of the jaw.
- 4) Refer to the diagram at right for The correct way to enclose a single conductor.
- 5) Read the ACA value on the LCD.



### Non-Contact AC Voltage Measurements

**WARNING:** Risk of Electrocution. Before use, always test the Voltage Detector on a known live circuit to verify proper operation

- 1) Touch the probe tip to the hot conductor or insert into the hot side of the electrical outlet.
- 2) If AC voltage is present, the detector light will illuminate.

**NOTE:** The conductors in electrical cord sets are often twisted. For best results, rub the probe tip along a length of the cord to assure placing the tip in close proximity to the live conductor.

**NOTE:** The detector is designed with high sensitivity. Static electricity or other sources of energy may randomly trip the sensor. This is normal operation

## Data Hold/ LCD Backlight Button

To freeze the LCD reading, press the **HOLD** button. While data hold is active, the **HOLD** icon appears on the LCD. Press the **HOLD** button again to return to normal operation.

## LCD Backlight

Press and hold the “**Hold Backlight**” key for more than 2 seconds to turn on the backlight. This will also activate the Data Hold function. To release the Data Hold function and return the meter to normal operation, press the Data Hold key momentarily. To turn off the backlight, press and hold the “Hold Backlight” key for more than 2 seconds

## Automatic Power OFF


In order to conserve battery life, the meter will automatically turn off after approximately 15 minutes. To turn the meter on again, please press “ON/OFF” key again.

## ON/OFF BUTTON:

**Power-On:** Pressing the **ON/OFF** button momentarily will turn the meter on.

**Power-Off:** While the meter is on, pressing the **ON/OFF** button for more than 1 second turns the meter off.

## Battery Replacement

- 1) When the low battery symbol  appears on the LCD the batteries must be replaced.
- 2) Power down and remove the rear battery compartment Phillips screw.
- 3) Lift off the battery compartment cover and replace the two 1.5V AAA cells.
- 4) Replace compartment cover and secure the screw.

## *Maintenance*

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### **Cleaning and Storage**

Periodically wipe the case with a damp cloth and mild detergent; do not use abrasives or solvents. If the meter is not to be used for 60 days or more, remove the battery and store it separately.

### **Battery Replacement**

1. Remove the Phillips head screw that secures the rear battery door
2. Open the battery compartment
3. Replace the two AAA battery
4. Secure the battery compartment

# Specifications

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## General Specifications

Display: 3-3/4 (4000 count) Digit LCD with white LED backlight

Sampling Frequency: 3 samples per second

Battery: Two 1.5V AAA batteries

Low Battery indication



" " displayed on the LCD

Auto OFF approx. 15 minutes

ACA Bandwidth: 50Hz to 400Hz

AC Response: True RMS

Operating conditions 32°F to 86°F (0°C to 30°C) 90%RH; 86°F to 104°F (30°C to 40°C) 75%RH; 104°F to 122°F (40°C to 50°C) 45%RH

Storage conditions Humidity - 14°F to 140°F (-30°C to 60°C); < 90% Relative Humidity

Altitude Operate at less than 3000 meters

Standards IEC61010 Category III 300V,



Function	Range	Resolution	Accuracy (of reading)
<b>AC Current (50 to 400Hz)</b>	<b>40.00A</b>	<b>0.01A</b>	<b>±(2.8% + 15 digits)</b>
	<b>300.0A</b>	<b>0.1A</b>	<b>±(3.0% + 15 digits)</b>
<b>Non-Contact AC Voltage</b>	<b>200VAC to 1000VAC 50/60Hz</b>		

For not sinusoidal waveforms the frequency range is: **50Hz to 60Hz**

Overload protection: **300A AC**

## **Warranty Information**

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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