**TRIPLETT**

# ACDL100
**True RMS AC Voltage/Current**
**Datalogger**



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## *Introduction*

Congratulations on your purchase of the Triplett ACDL100 TRMS Voltage or Current datalogger. With this meter, you can monitor and log data over long periods of time and then easily transfer the data to a pc for viewing and evaluation. The LCD display provides real time data, Max/Min data and time information

## *Safety*

## ⚠ **Warning!**

Do not attempt to make measurement in flammable gaseous areas!

When testing a non-insulated cable, pay

attention to avoid short circuits. Do not

attempt to use the instrument when your hand

is wet!

Do not input over range during measurements.

Never open the battery cover during measurements.

Stop using the instrument when there is any structural

defect or exposed metal parts. Do not install substitute

parts or make modifications on the meter.

Never replace the battery in moist areas.

Ensure the meter is disconnected and switch off before opening
the battery cover to replace the battery.

Do not attempt to place the instrument in high vibration areas.

Do not expose the meter to direct sunlight, high temperature and
high moisture environment. Switch off the meter after use. Remove
the AAA batteries when the meter will be stored for a period of time.

When cleaning, do not use abrasives or solvents on the meter,
use a damp cloth and mild detergent only.

## *Description and Button Functions*

#### 1. LCD Description

❶❷❸ ⊂⊃ ⌒ Ν ⊘

⊂⊃ Normal record mode is selected

Ν Capture record mode is selected. Records the sine wave when the measure value exceeds the Capture Detection set level.

⊘ Auto power off setting, the meter will automatically shuts off after 5mins without any button presses.

PEAK Average peak measure and record mode selected (about 195ms)

REC Recording status. After the record mode is set up by the software, press the START/STOP button for more than 4 seconds to begin recording. This icon will be displayed and indicates the meter is recording data. Press the same button again for more than 4 seconds to stop recording.

⇥ Record until full is selected. When the memory is full, the datalogger will stop recording.

○ Continuous recording is selected. When the memory is full, the data will overwrite the oldest data.

FULL Memory full and recording has stopped.

▩ Battery sign, when display completely the battery power is full. When there is only a frame icon displayed, the battery is exhausted and should be replaced with a new one.

2. **AC adaptor Jack**

3. **ON/OFF Button**

4. **MAX/MIN :** Press the button one time to display the MAX (maximum) reading . Press again to display the MIN (minimum) reading. A third press will exit MAX/MIN mode. The meter will automatically exit MAX/MIN mode in 10 seconds if no button is pressed.

5. **CH Input Jack:** Insert the current or voltage sensor to this COM to measure and record the data.

6. **PEAK HOLD:** In the non-PEAK measurement mode, press the PEAK HOLD button to display the average Peak value of the present value. Press the button again to exit PEAK display. The meter will automatically exit in 10s if no button is pressed.

7. **START/STOP:** Press the START/STOP button for one time to pause data. Press again to resume. After setting the record mode, press this button for more than 4 seconds and then release it after REC is shown on the LCD. The meter will measure and record data according to the software setup.

8. **USB Port**

9. **AC Current Clamp Jaw:** Clamp the jaws around a single conductor for AC current measurements to 200A

10. **Jaw Opening Trigger**

11. **CH Plug**

12. **AC Voltage Probes or Alligator clips**

13. **Voltage module**

14. **CH Plug**

## *Operation*

1. Install 4 fresh AAA batteries or connect the AC adaptor.
2. Set-up the datalogger using the software provided.
3. Connect the voltage test leads or the current probe to the meter and hen to the AC source to be measured.
4. Press and Hold the START/STOP button for four seconds to start recording. The "REC" icon will appear in the display indication that recording has begun.
5. Press and Hold the START/STOP button for four seconds to stop recording. The "REC" icon will disappear from the display.
6. Remove the probe, connect the datalogger to a PC and use the supplied software to download the data.
7. After each recording you will need to connect to the PC and supplied software to download the data and set up for the next recording.

You, as the end user, are legally bound (**Battery ordinance**) to return all used batteries and accumulators; **disposal in the household garbage is prohibited!**

You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold!

**Disposal:** Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle.

Note: If the clock does not set to the correct time, replace the 3V button battery.

## *Software Introduction*

1. Software can be downloaded from the Triplett Website here: [Download Triplett Product Software — Triplett — Triplett Test Equipment & Tools](#)

2. After the software is installed, connect the datalogger to the PC by the USB cable.

3. A USB Driver installation window will pop-up. Follow the directions to install the driver.

**System Required:**
Windows 2000, Windows XP, Vista, Windows 7,Windows 8, or Windows 10

**Minimum Hardware Required:**
PC or NoteBook with Pentium 90MHz or higher 32 MB RAM
At least 7 MB hard disk space available to install Datalogger USB software
Recommended display resolution 1024 x 768 with High Color (16 bit)

**Software Operation**
The Software operation is described in the HELP file located in the software suite.

## *Specifications*

| | |
|---|---|
| Display | Multi-function LCD |
| Maximum data points | 100,000 |
| Channels | Single channel, TRMS AC Voltage or Current |
| Sample rate | 1s to 24h selectable |
| Transient capture | >0.244mS |
| Analysis software | Windows 2000/XP/ Vista/7/8 |
| Data output | USB port |
| Open input indication | "LO" appears on the LCD |
| Low battery indication | Empty battery symbol appears on the LCD |
| Power supply | 4 AAA Batteries and 1 CR 3V memory button battery (CR2032 or equivalent) |
| Battery life | 5 days (approximately) |
| AC Adaptor | 9V, 0.5A |
| Standards | CC CAT III 600V |
| Operating Temperature | 0 to 50°C (32 to 122°F) |
| Operating Humidity | <70% RH |
| Current Clamp Jaw opening | 12.7mm (0.5") |
| Dimensions | 114 x 63 x 34mm (4.5 x 2.5 x 1.3") |
| Weight | 248g (8.7oz.) |

| | Range | Accuracy |
|---|---|---|
| Voltage 40Hz to 1kHz | 10VAC to 600.0VAC | ±2.0%±1V |
| Current 50/60Hz | 10A to 200.0A | ±2.0%±1A |
| Peak Measurement | 8.0 to 850.0V | ±5.0% |

## *Warranty*

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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