

User Manual



ACDL200

Dual Input True RMS AC

Voltage/Current Datalogger



Introduction

Congratulations on your purchase of the Triplet AC DL200 Dual Input Voltage / Current datalogger. With this meter, you can monitor and log data (Voltage/Voltage, Current/Current or Voltage/Current) over long periods of time and then easily transfer the data to a pc for viewing

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



Auto power off (does not apply when recording), the meter will automatically shut off after 5mins without any button presses.

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



Battery status, when completely filled in (black) the battery power is full. When there is only one section filled in, 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 Jacks:** Insert the current or voltage sensor to these ports to measure and record the data.

6. **CHANNEL:** Select the channel for display on the LCD

7. **START/STOP:** After the datalogger is setup from the software, press The, START/STOP button for 4 seconds to begin recording. Press the button again for 4 seconds to stop recording.

Recording cannot be started again until the data is downloaded to the software!

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 probes 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.

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



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.

Software Introduction

1. Place the CD in the drive and then follow the on-screen installation instruction.
2. After the software is installed, keep the CD in the drive and 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.

[Download Triplett Product Software — Triplett — Triplett Test Equipment & Tools](#)

Software Operation

The Software operation is described in the HELP file located on the software disk.

Specifications

Display	Multi-function LCD
Maximum data points	256,000 Values
Channels	Dual channel, TRMS AC Voltage or Current 1s to 24h
Sample rate	selectable
Data output	USB port
Current Clamp Jaw opening	12.7mm (0.5") "LO" appears on the LCD
Open input indication	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) 5 days
Battery life	(approximately)
AC Adaptor	9V, 0.5A
Standards	CC, CAT III 600V, for inside use, maximum height 2000 meters
Operating Temperature	0 to 50°C, 32 to 122°F
Operating Humidity	<70% RH
Storage temperature	-20°C to 60°C (-4°F to 140°F) < 80% relative
Storage Humidity	humidity
Dimensions	114 x 63 x 34mm" (4.5 x 2.5 x 1.3)
Weight	248g. (8.7oz)

Function	Range	Accuracy
Voltage (40Hz to 1kHz)	10VAC to 600.0VAC	±2.0%±1V
Current (50/60Hz)	10A to 200.0A	±2.0%±1A

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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