

# CTL-150 Volt Logger Digital Data Logging Volt Logger



The Voltlogger has been specifically designed for the Battery test & maintenance industry replacing the traditional, potentially inaccurate, 'paper and pencil' methods.

The CTL-150 data logging voltmeter automatically measures and records cell voltages in less than 1 second and increments the cell counter ready to read the next cell, enabling the user to take readings from a string of cells without interruption.

A new discharge test mode is included for monitoring battery discharge tests, 11 sets of 256 voltage readings.

This data can then be downloaded and analysed with the supplied Win-meter Analysis Software, enabling full reports to be printed and stored as well as quickly identifying cells that are out of tolerance and likely to require further maintenance.

## System Features & Benefits

- Measure, time stamp, store voltages in less than 1 second with immediate audio and visual out-of-tolerance indication. See the results on display in Graphic format.
- Float Mode; record in either 8 strings of 256 or 20 strings of 48 format.
- Discharge Mode; Every cell reading is time stamped, record up to 11 sets of 256 cell voltage data. (Optional) record 256 time stamped Load Current readings (from another instrument not provided)
- Upload and view CTL-200 Specific Gravity and temperature readings. (Instrument not included)
- Splash-proof membrane keypad with separate keys for ON/OFF, Recall and Print.

## Hardware Specification

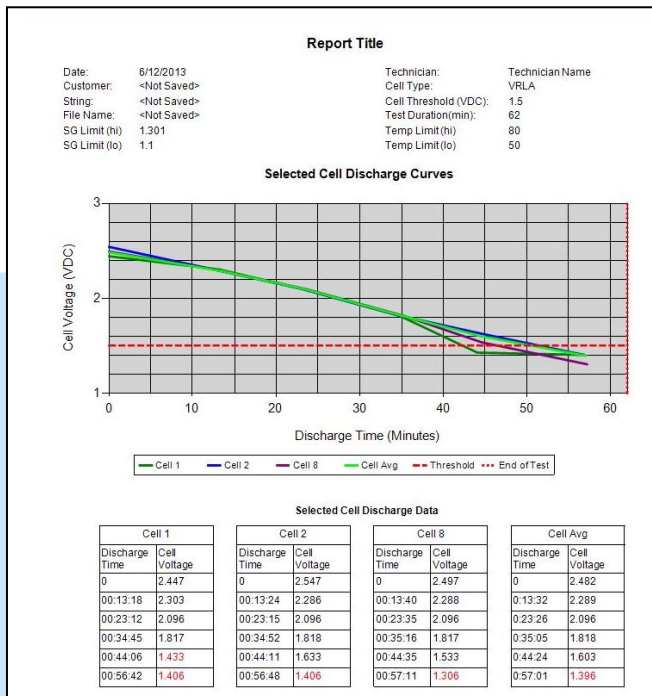
- **Communication Interface** IRDA infrared, USB.
- **Software** Win-meter Windows based programme enables stored data to be analysed, or alternatively exported directly into EXCEL format.
- **Power Requirements** Lithium Ion pack (3.7V 2200mAh) with built-in protection chip board (for over-charged, over-discharged, short-circuit), Approx 15 Hours service, Auto off after 5 Mins.
- **Display** OLED 256 Colour, 35 x 28mm, resolution 160 by 128 pixels
- **Dimensions** Instrument only 160 x 80 x 35mm (Approx) With Robust case
- **Specification** Input 0-4V 1mV resolution Accuracy +/- 5mV, Input 4-20V 1mV resolution Accuracy +/- 10mV.
- **Environmental** Temperature range Operating 0-40°C, Humidity Range 0% to 80% (non-condensing)

## After Sales Service

- **Annual Service** CellCare Technologies provide a full annual service and routine calibration facility for all Volt Logger's. This service also includes annual telephone and email support.
- **Calibration Certificate** All Volt Loggers are supplied with a certificate of calibration.

See us On-Line @ [www.cellcare.com](http://www.cellcare.com)





### Edit/View Existing Battery Discharge Test

Database Information: Customer: samples, String: String1-2, Filename: String1-2\_001.dcf

Report Information: # of Cells: 10, Test Date: 6/12/2013, Start Time: 12:40:00 PM, Title: Report Title, Technician: Technician Name, Battery Type: VRLA

End of Test (minutes): DLV50 "Stop test" timestamp: 0, Last DLV50 measurement: 01:01:00, User Input (time in minutes): 55

SG/T Limits: SG Limit: 1.301, 1.100, 1.300, 1.300; T Limit: 080.0, 050.0, 085.0, 050.0

Voltage Limits: Cell Voltage Thresholds: Float & Discharge (H): 2.45, Float (Lo): 2.3, Discharge (Lo): 1.5

Battery/String Voltage Thresholds: Float (#Cells x Cell lim lo): 23, Discharge (#Cells x Cell lim lo): 15

Select Load Current Data: None, 350, User Input - Enter Avg Discharge IDC, Time Stamped Data

Index	Time	Idc	Avg
001	00:01:00	320.0	321.7
002	00:05:00	310.0	380.0
003	00:10:00	360.0	280.0
004	00:15:00	310.0	365.0

Select	Cell #	Time	Cell VDC	Time	Cell VDC	Time	Cell VDC	Time	Cell VDC	Time	Cell VDC
<input checked="" type="checkbox"/>	1	00:00:00	2.447	00:13:18	2.303	00:23:12	2.096	00:34:45	1.817	00:44:06	1.433
<input checked="" type="checkbox"/>	2	00:00:00	2.547	00:13:24	2.286	00:23:15	2.096	00:34:52	1.818	00:44:11	1.633
<input type="checkbox"/>	3	00:00:00	2.447	00:13:27	2.286	00:23:19	2.096	00:34:56	1.818	00:44:15	1.633
<input type="checkbox"/>	4	00:00:00	2.447	00:13:29	2.287	00:23:22	2.096	00:34:59	1.818	00:44:19	1.633
<input type="checkbox"/>	5	00:00:00	2.647	00:13:31	2.287	00:23:26	2.097	00:35:03	1.818	00:44:23	1.633
<input type="checkbox"/>	6	00:00:00	2.447	00:13:35	2.287	00:23:29	2.096	00:35:08	1.818	00:44:27	1.633
<input type="checkbox"/>	7	00:00:00	2.447	00:13:37	2.288	00:23:32	2.096	00:35:12	1.818	00:44:31	1.633
<input checked="" type="checkbox"/>	8	00:00:00	2.497	00:13:40	2.288	00:23:35	2.096	00:35:16	1.817	00:44:35	1.533
<input type="checkbox"/>	9	00:00:00	2.447	00:13:43	2.289	00:23:38	2.096	00:35:20	1.817	00:44:39	1.633
<input type="checkbox"/>	10	00:00:00	2.448	00:13:45	2.289	00:23:41	2.096	00:35:24	1.818	00:44:42	1.633
<input checked="" type="checkbox"/>	Average	00:00:00	02.482	0:13:32	2.289	0:23:26	2.096	0:35:05	1.818	0:44:24	1.603
	Sum (V..)		024.8		22.89		20.961		18.177		16.03

Buttons: Selected Report, General Report, Animated Report, Export to Excel, Save, Close

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