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Battery Test Systems for Energy Materials Research

Landt CT3002A/CT2001A/CT3001A Battery Test Systems are designed for energy storage materials research and various battery tests. Each tester has eight independent channels. They can be programmed to run automatic constant current charge and discharge tests and cycle life tests. With current/voltage custom-built (current ranges from 1 mA to 5 A, voltage ranges from 5V to 15V), the battery test systems can run precise battery charge/discharge tests in most cases of coin cell test/half cell test, pouch cell test, cylindrical cell test (18650 & 21700 cells).

The control software comes free with the battery test system. It has a friendly interface, which allows new users to operate with minimal training. Besides, data process software shows different kinds of plots for specified cycles (Voltage vs. Capacity, Capacity vs. Cycle Number, Efficiency, etc.), and the data can be easily exported by simply “Copy” and “Paste.”

Since Jan 2021, we have upgraded CT2001A/CT3001A with CT3002A models, which have a higher sampling rate (up to 10 pts/s), better reliability, and better accuracy at low current. The classic CT2001A has been discontinued.

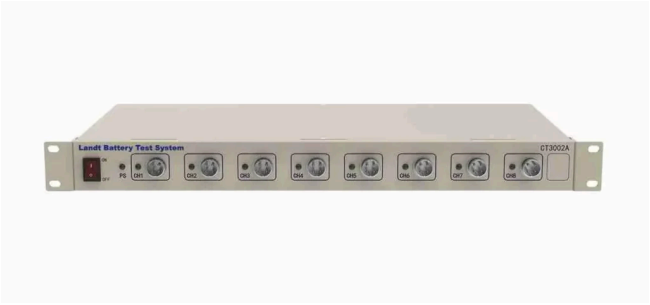
Features

- High-precision battery test systems with 8 channels designed for electrochemical materials research and battery charge/discharge tests
- 8 independent channels with each can be set as Constant-Current (CC) Discharge, Constant-Current (CC) Charge, Constant-Voltage (CV) Charge, Cycling loops, etc.

- Single current range for CT3001A and double current ranges for CT3002A (1mA/10mA, 10mA/100mA, 2mA/20mA, 5mA/50mA, 100mA/1A, 500mA/5A, etc.)
- Independent current source and voltage control for every channel
- RS232/422 ports for efficient and reliable communications, very easy to set up
- LandtMon software for scheduling a test and monitoring the data
- Separate data process software, small but powerful
- Data automatically backed up on the hard drive or an external drive
- Full safety protections for all the channels
- Capable to control up to 20 battery test systems (160 Channels) with one computer
- Custom current/voltage ranges available up to request



Battery Test System CT3002A (current 100mA above)



Battery Test System CT3002AU (current 100mA or below)

Typical CT3002 Battery Test Models

Model	Current Ranges	Working Current	Working Voltage	Number of Channels
CT3002AU-5V10mA	10mA/1mA	2uA~10mA	-5V~+5V	8
CT3002AU-5V50mA	50mA/5mA	0.01mA~50mA	-5V~+5V	8
CT3002AU-5V100mA	100mA/10mA	0.02mA~100mA	-5V~+5V	8
CT3002A-5V200mA	200mA/20mA	0.04mA~200mA	-5V~5V	8
CT3002A-5V500mA	500mA/50mA	0.1mA~500mA	-5V~5V	8

Model	Current Ranges	Working Current	Working Voltage	Number of Channels
CT3002A-5V1A	1A/100mA	0.2mA~1A	-5V~5V	8
CT3002K-5V5A	5A/500mA	1mA~5A	-5V~5V	8
CT3002K-5V6A	6A/600mA	1.2mA~6A	-5V~5V	8
CT3002K-5V10A	10A/1A	2mA~10A	0V~5V[1]	8
CT3002N-5V20A	20A/2A	4mA~20A	0V~5V[1]	8

[1] Regular models discharge to 1.5 Volt. Custom models can discharge to 0 Volt.

Channel Specifications:

Current Accuracy (control and measurement)	Maximum error: ± 0.05% Full Scale Typical: ± 0.03% Full Scale
Voltage Accuracy (control and measurement)	Maximum error: ± 0.05% Full Scale Typical: ± 0.03% Full Scale
Data Record Frequency	10 Hz (10 pts/s)
Protection	Top Voltage Limit, Lower Voltage Limit, Top Current Limit, Lower Current Limit

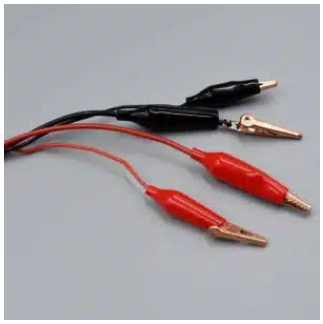
Applications:

- Coin cell/button cell/half cell test
- Swagelok cell test
- Pouch cell test
- Cylindrical cell test (18650/21700)
- Flow cell test
- Lithium-ion, Sodium-ion, and other battery chemistries

Components and Accessories:

Computer:	One PC can control up to 20 units of the battery test systems (160 channels)
Software	Separate data acquisition and data analysis software
Starter Guide and Instruction Manual	Four-electrode clips and coin cell clips are the standard configurations for coin cell tests; Pouch cell clips are optional; custom cell leads are available at a minimum cost
Power Cord:	One for each unit, 6 port power cord available
Interface Cable/Electrode Leads	Four-electrode clips and coin cell clips are the standard configurations for coin cell tests; Pouch cell clips are optional; custom cell leads are available at a minimum cost.

Cell leads



4-electrode alligator clips

$9.99 – $19.99

Select options



Coin Cell Clip 2545 with a Din Rail

$11.99 – $19.99

Select options



Pouch Cell Clips 2545 with a Din Rail

$12.99 – $89.99

Select options

Additional:

Moveable rack with 10 shelves	$798.00 each, capable of hosting up to 10 units of CT3002A/C or 20 CT3002AU battery test systems

Temperature Monitor Channels	16/32 independent sensor electrodes, compatible with the data acquisition software

Battery Test Models

CT3002A
CT3002C
CT3002K
CT3002N
CT3002D
AT2016B
Aux T
AT2016B
Aux V
AT2016C
Aux P
M240A
M340A
G340A
D340A
D350A

Accessories

Cell Clips
Steel Racks

Temperature Chambers

Phone: +1(607)821-3926
Email: landt@landtinst.com

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We buy equipment

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