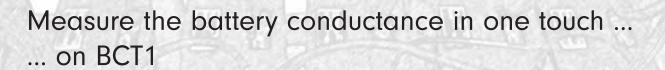
SCOPE

BCT 1 Battery Conductance Tester





The Product

BCT 1: Battery Conductance Tester

Battery bank installations are important & essential part of various power, communication, information technology & industrial set-ups. In order to ensure healthy performance of such installations, the batteries used need to be properly monitored. One of the quick check methods is to measure the battery voltage & conductance of individual cells of a battery string and to identify & eliminate weak battery cells and save battery string from further degradation.

SCOPE's BCT 1 is the comprehensive battery operated, portable, hand held Battery Conductance Tester suitable for all Lead Acid & Nickel Cadmium cells having cell voltage of 1.2V / 2V / 6V / 12V. This is all in one single unit that allows you to measure cell terminal voltage & internal conductance in one touch without taking the battery system OFF LINE.







Measurement

Cell capacity decreases due to various factors such as ageing, ambient temperature, discharge history etc. Regular maintenance and testing is a "must-have" procedure for standby batteries. With BCT 1 user can simply connect the clamps to cell terminals and it will automatically measure, display & save cell conductance and cell voltage. It takes less than 30 Sec for completing the test. Individual cells in a battery string can be tested one after the other without needing any start / stop operation in between. Smart design of BCT 1 will ensure quick, precisely & automatic measurement of each cell.

The operation is based on the principle of DC discharge using 4-wire measurement method. The instrument measures pure Conductance component of the battery by eliminating reactance. The 10% of the total current of the battery is allowed to discharge over a certain period through the instrument. During this period conductance is calculated. The instrument has predefined set of conductance values stored in the memory for various types of batteries. It compares calculated conductance with these predefined ones, and displays percentage capacity of each cell.

The touch screen operation and PC Data Management Software supplied for analysis of results makes the battery management a pleasurable job.



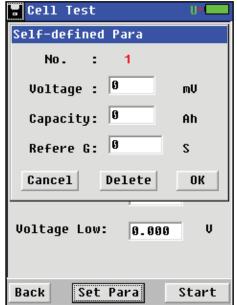


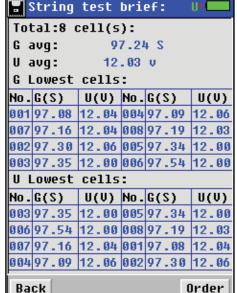


Special Features

- Smart, rugged and portable hand held device.
- Suitable for batteries up to 6000 Ah.
- Tests all types of batteries having cell voltage of 1.2V / 2V / 6V / 12V. Option of self-defined voltage
 is also available.
- On line measurement- No need to disconnect cell / string from system.
- Simultaneously tests cell terminal voltage, internal conductance and relative percentage capacity of the cell.
- Built-in reference value or self-defined value for comparison of test results with standard values.
- Low frequency testing effectively avoids interference from capacitive resistance of battery itself.
- Stable and accurate results in presence of high interference.
- Fast operation & quick stabilization. Auto saving of results.
- Colour touch screen display as well as operation through keypad.
- Large memory to store results of up-to 3000 cells.
- Auto-calibration of unit before testing.
- Over voltage protection & audio alarm.
- Analysis of results through PC Data Management Software including Histogram.

Test Results







Self Defined Cell Parameters

Test Results

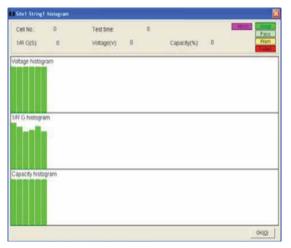
String Test Summary

PC Data Management Software

The PC Data Management Software allows user to download all data from BCT 1 and store & analyse the same on PC. User needs to install/configure software on their PC. Test results saved in BCT 1 can be downloaded to USB pen drive and from there to PC. It is further imported in this analysis software. Software provides smart features for data analysis, battery condition tracking and report printing. Following are major features provided.

View Cell & String Data

It displays detailed test results taken at different times for cells as well as strings separately. The test results include test time, string voltage, conductance, capacity and status. Percentage of health status category of battery will also be displayed on the top in different colors. User can click on each item to sort them out in sequences. It is possible to add comments.





Histogram

Histogram visually displays cell performance in all aspects including cell number, time, voltage, conductance & capacity. Variation of cell parameters with respect to time can be easily seen & analysed by visual inspection of histogram.

Specifications

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Parameter	Range	Resolution	Accuracy
Conductance (Siemence)	100 to 19990ర	0.01m℧	\pm 1.0% of reading \pm 6 digit
Voltage	0 to 16V	1mV	\pm 0.2% of reading \pm 6 digit
Measuring Cells Per String	Up to 254		
Display	Colour TFT touch screen LCD, 320 x 240 pixel, 3.5"		
Memory	3000 test results		
Power Supply	Li-ion battery		
Working Time	> 5 hours continuous		
Environment	0°C to 50°C, up-to 95% RH (Non-condensing)		
Dimension (L x W x H)	210 mm x 110 mm x 60 mm		
Weight	2 kg (including accessories)		

Standard Acessories

Test Cables with Clamps **Soft Carrying Case** : 1 pair **Battery Charger** Instructions Manual USB Pen Drive with Software : 1 Factory Test & calibration report: 1 **USB** Converter Cable : 1

Optional Acessories

Test Cables with Pin Type Probe: 1 pair

Simple solutions for difficult measurements

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