BATTERY ANALYZERS

Fluke battery analyzers are the ideal test tool for maintaining, troubleshooting and performance testing the individual stationary batteries and battery banks that are used in critical battery backup applications in data centers, telecom networks, power distribution systems and more. With an intuitive user interface, a compact design and rugged construction, the Fluke battery analyzers provide optimum performance, test results and reliability.

The Fluke 500 Series Battery Analyzers cover a broad range of battery test functions, from ripple voltage to multi-measurement mode, which shortens test times by performing three measurements in one: dc voltage, internal resistance tests and infrared temperature measurement.

For more information please visit our website: **www.fluke.co.uk**

Fluke Battery Analyzers

By reducing testing complexity, simplifying testing workflow and incorporating an intuitive user interface, the Fluke BT510 Basic Battery Analyzer, BT520 Battery Analyzer and BT521 Advanced Battery Analyzer bring a new level of ease of use for testing stationary batteries of all types.

- Key measurements: Internal battery resistance, dc and ac voltage, dc and ac current, ripple voltage, frequency and temperature
- Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature (with BTL21 intelligent test probe), eliminating the need to press a button each time a measurement needs to be saved
- Comprehensive logging: All measured values are automatically captured during testing and can be reviewed on the instrument before downloading for on the-go analysis
- Optimized user interface: Quick, guided setup and profile creation ensures the right data is captured every time, and the combined visual and audio feedback cues reduce the risk of measurement confusion
- Safety rating: CAT III 600 V



Functions	Range	Resolution	Accuracy	BT510	BT520	BT521
Battery resistance[1]	3 mΩ 30 mΩ 300 mΩ 3000 mΩ	0.001 mΩ 0.01 mΩ 0.1 mΩ 1 mΩ	1 % + 8 0.8 % + 6 0.8 % + 6 0.8 % + 6	• • • •	• • • •	• • • •
V dc	6 V 60 V 600 V 1000 V	0.001 V 0.01 V 0.1 V 1 V	0.9 % + 5 0.9 % + 5 0.9 % + 5 0.9 % + 5	• • •	• • •	• • • •
V ac (45 Hz to 500 Hz with 800 Hz filter)	600 V	0.1 V	2 % + 10	•	•	•
Frequency (displayed with V ac and A ac)[2]	500 Hz	0.1 Hz	0.5 % + 8	•	•	•
AC voltage ripple (20 KHz max)	600 mV 6000 mV	0.1 mV 1 mV	3 % + 20 3 % + 10	• •	• •	•
A dc/A ac (with accessory Fluke i410)	400 A	1 A	3.5 % + 2			•
Temperature	0 °C to 60 °C (32 °F to 140 °F)	1 °C (33.8 °F)	2 °C (4 °F)			•
Interactive Test Probe set, with extender					•	•
Meter mode	999 records for each measurement position with time stamp					
Sequence mode	Up to 100 profiles and 100 profile templates (each profile stores up to 450 batteries) with time stamp					

[1]The measurement is based on AC injection method. The injected source signal is 100 mA, 925 Hz.
[2]Trigger level V ac: 10 mV, A ac: 10 A.