RAPTOR SCIENTIFIC®

ICT Series

Global Provider of Test & Measurement Solutions

Space Electronics designs and manufactures a variety of Igniter Circuit Testers for the testing of squibs and other electrically detonated ordinance. Space Electronics 101-SQB-BTP squib testers can safely test diodes and measure resistance with great accuracy. This ICT is a combination 19-inch rackmount/benchtop unit.

Range (full scale)	Resolution	Accuracy (full scale)
20 Ω	0.001	0.05%
200 Ω	0.01	0.025%
2 kΩ	0.1	0.025%
20 kΩ	1	0.05%
200 kΩ	10	0.5%
2 MΩ	100	1.0%
DIODE (1.0 VDC)	0.001 VDC	0.5%

Alternate ranges and diode testing are available. Calibration standards can be provided upon request. Additional options are available.

Model 101-SQB-BTP Igniter Circuit Testers

Key Benefits

Our 101-SQB-BTP squib tester is a portable stand-alone unit with a built-in NiMH battery.

- Detect missing or broken wires in the 4-wire test leads to the UUT. Diagnose and locate wiring errors that other testers would show as a resistance or open circuit reading.
- Immune to differences in lead resistances. Our squib testers are specifically designed to withstand unequal lead resistances on the 4-wire cable lines.

Safety Features

- Fail-safe module limits test current. Since excessive test current could cause bodily injury or death, protection for all modes of failure or operator error is built into the squib tester.
- A sealed, tamperproof, fail-safe module guarantees that the test current will be less than 10 mA even under worst-case conditions of simultaneous failure of multiple circuit elements.
- Fiber-optic Interface is standard, which ensures safe meter integration and physical separation between the computer's power system and the squib.
- Isolated Power Supply. The power supply of our squib tester is 100% floating for safety isolation between the power source and the squib.

Ease of Use

- 4-wire test lead arrangement automatically compensates for lead resistance.
- Quick Reading. Squib tester stabilizes readings in less than 2 seconds. Large format LCD, shows measurement range, units, battery level, calibration status.
- Calibration of the squib tester is performed digitally, with no requirement to open the meter or trim internal or external potentiometers..

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