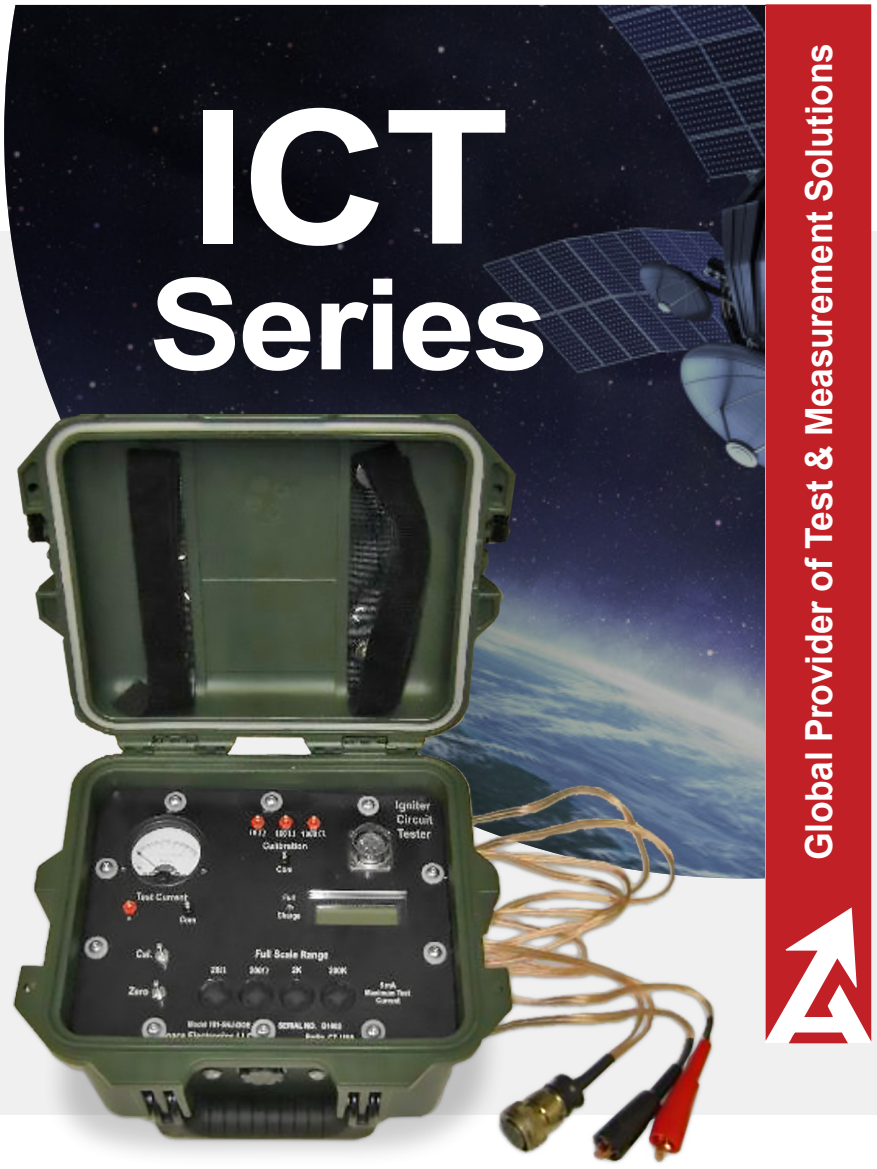
RAPTOR SCIENTIFIC

ICT Series



Global Provider of Test & Measurement Solutions

Space Electronics manufactures a variety of Igniter Circuit Testers for the testing of squibs and other electro-explosive circuits such as rocket igniters, explosive bolts, squibs, and blasting caps using a test current that is as much as 1,000 x less than a conventional precision low resistance ohmmeter.

Designed for testing squibs and other electrically detonated ordnance, the 101-SQB-PTU squib tester can test diodes and measure resistances with great accuracy while dramatically reducing the risks of accidental detonations because of its built-in fail-safe modules.

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-PTU Igniter Circuit Testers

Design Features

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

- 8 hr operation on a single charge
- Automatically switches to maintenance mode when fully charged
- Batter pack is fused to protect against overcurrent
- Tester automatically turns off after 5 min. of inactivity to conserve battery life
- Connector design prevents circuit testing and battery charging at the same time
- Ruggedized IP65 case protects against dust and liquid intrusion.

Safety Features

- Fail-safe module limits test current which could cause bodily injury or death. Protection for all modes of failure or operator error is built in. A sealed, tamperproof, fail-safe module guarantees that the test current will be under 10mA even in worst-case conditions of simultaneous failure of multiple circuit elements.
- Standard fiber-optic interface with IP65 cover ensures safe meter integration and physical separation between the computer power system 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, and 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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