

Designed for testing squibs and other electrically detonated ordnance, Raptor Scientific's 101-SQB-RAK squib testers can safely test diodes and measure resistances with great accuracy. The ICT is designed to be installed in the customer's 19-inch rack or benchtop system.

Key benefits

- 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 resistance or open circuit reading.
- Immune to difference in lead resistances. Testers designed to withstand unequal lead resistances on the 4 wire cable lines.

Range	Full Scale	Resolution	Accuracy (full scale)
20 Ω	20 Ω	0.001	0.05%
200 Ω	200 Ω	0.01	0.025%
2 k Ω	2 k Ω	0.1	0.025%
20 k Ω	20 k Ω	1	0.05%
200 k Ω	200 k Ω	10	0.5%
2 M Ω	2 M Ω	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. Customer's power supply needs to be isolated with a level of 4.0 to 6.5 VDC at less than 550 mA

ICT Series 101-SQB-RAK



Igniter Circuit Testers: Model 101-SQB-RAK

Remote Control and Data Logging

Optional software for remote readout and control of the tester from a computer includes:

- Data logging: data is saved to a database, and exportable to Excel.
- Scripting: engineers can define a UUT and write a script defining the circuit paths to test, the ranges to use, and pass/fail criteria. Sequence can be followed manually by operators or run automatically.
- Optional switching matrix front end can be custom built to your application to test multiple circuit paths automatically.
- Reporting: software generates individual UUT measurement and generates statistical report of multiple UUTs.

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. Sealed, tamper-proof, fail-safe module guarantees 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.
- Isolated Power Supply designed to connect to customer's safety-approved 100% floating power source.

Ease of Use

- 4-wire test leads arrangement automatically compensates for lead resistance.
- Tester stabilizes readings in under 2 seconds. Large LCD shows measurement range, units, battery, and calibration status.
- Digital calibration, no need to open meter or trim internal or external potentiometers.