

The R1L-BR1 is specifically configured for flight-line testing of military helicopters.



R1L-BR1

The **Model R1L-BR1 Bond Testing Kit** is the latest addition to TEGAM's growing line of high-performance microohmmeters.

This self-contained, portable instrument provides all the features and capabilities needed to complete any ground bond test in even the most difficult environments. It was designed to make the more than thirty bond measurements required in the Kiowa Warrior Maintenance Procedure.

The R1L-BR1:

- Field proven design
- Four wire Kelvin measurement for 0.25% accuracy
- Five Ranges: 2 mΩ to 20 Ω.
- Rechargeable batteries with a full day of use

The R1L-BR1 is designed to be used by all maintenance personnel without training. The permanent front panel diagrams and instructions ensure that any user will be able to plug-in their choice of probe, turn it ON, select a RANGE and make an accurate measurement without consulting the user manual.

The R1L-BR1 was designed to be the ideal solution for bond testing rotary wing aircraft in manufacturing and flight line maintenance operations.

Bond Testing Kit

- NSN: 6625-01-625-1970
- 1 pair of BCP-10 Kelvin Probes
- 1 pair of KAK-1M Kelvin Alligator Clips
- 8 BCP-10-A Probe Tips
- 1 Power Cord for line power and recharging
- 1 User Manual with operating and service instructions
- 1 ANSI/Z540 Compliant Calibration Certificate
- 1 Spare Fuse installed in integral spare fuse holder

Specifications

Resistance Ranges and Test Currents

Full Scale	Resolution	Accuracy	Test Current
1.999 mΩ	1 μΩ	0.25% of reading ± 1 count	1.4 A
19.99 mΩ	10 μΩ	0.25% of reading ± 1 count	140 mA
199.9 mΩ	100 μΩ	0.25% of reading ± 1 count	14 mA
1.999 Ω	1 mΩ	0.25% of reading ± 1 count	1.4 mA
19.99 Ω	10 mΩ	0.25% of reading ± 1 count	140 μA

Calibration Operates as specified for at least one year without the need for recalibration. Internal controls are available to recalibrate all ranges.

Environmental Operating Temperature: 0 °C to +50 °C
Storage Temperature: -40 °C to +71 °C

Physical and Power

Size: 14.1 in W x 10.6 in D x 6.1 in H
Weight: 9.8 lb (4.45 kg)
Power: 90 to 250 VAC 50/60 Hz
3 High Capacity 'C' NiCad rechargeable batteries are included

Additional Accessories Available for Aerospace Applications

Model	Description
HTP-100	Pistol Grip Probes
SSP-10	Kelvin Probe with Stainless Steel Pins
SSP-10-A	Replacement Pins for SSP-10
HKC-100	Large Kelvin Test Lead Set



HKC-100 Large Kelvin Test Lead Set



SSP-10 Kelvin Probe with Stainless Steel Pins



HTP-100 Pistol Grip Probes



Shown above, the included KAK-1M Kelvin Alligator Clips, and the BCP-10 Kelvin Probes with BCP-10-A tips.