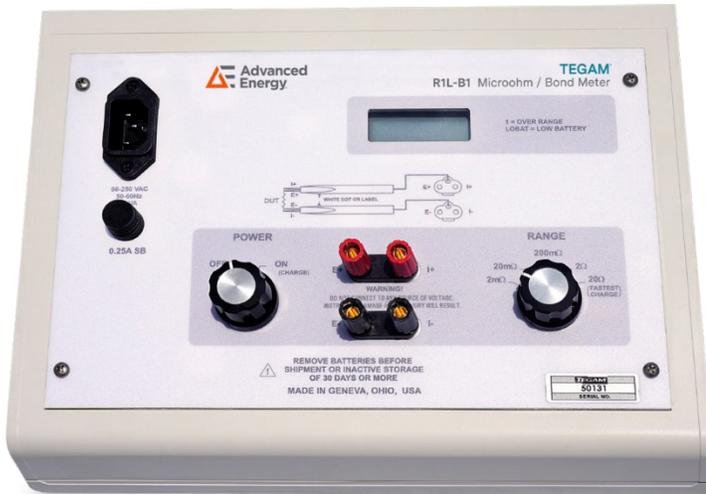


Micro-ohmmeter and Bond Tester



Model R1L-BI



Model R1L-BIR

- Rugged: MIL PRF2880F Class 3 (R1L-BIR)
- Low Cost: (R1L-BI)
- Portable: Long Rechargeable Battery Life
- Ranges: 2 mΩ to 20 Ω
- Accuracy: 0.25% of reading
- Resolution: 1μΩ
- Simple Operation
- Offset Compensation

The R1L-BI series Ohmmeter/Bonding Tester is a digital micro-ohmmeter designed to measure resistances up to 20 Ω. It may be used in applications such as ground bond tests, motor, transformers, switch, circuit breaker, circuit resistance and other contact and connection resistance tests. The instruments utilize the four-terminal Kelvin technique to eliminate errors caused by the resistance of the connecting cables. Resistance readings are viewed on a 3½ digit display, reading from 1.999 to 199.9.

Front panel controls are simply a POWER ON-OFF switch and a rotary 5 range selector switch. Measurement connections are made via four front panel low thermal banana jacks.

Both instruments are battery operated and recharged from line power. The BIR model is more suitable for portable “rugged” applications while the BI model is suitable mainly for “in plant” environments.

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

*Note: For readings below 10% of each range, accuracy is ±(0.25% + 2 counts)

Reactive loads not to exceed 2mH or 100μF with a minimum of 5μΩ per μH of series resistance.

Recommended Calibration Cycle	1 year		
Environmental			
Operating Temperature	0 °C to +50 °C		
Storage Temperature	-40 °C to +71 °C		
Physical and Power	R1L-BI	R1L-BIR	
Size	11.6"W X 4"H X 6.8"D	10"W X 5"H X 9"D	
Weight	3.6 lb	6.7 lb	
Power		120/240VAC 50/60 Hz 3 High Capacity 'C' NiCad rechargeable batteries included	

*Accuracy based on recommended calibration cycle.

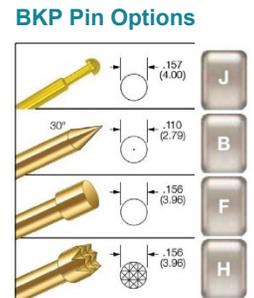
Accessories

Model	Description
HTP-100	Pistol Grip Probes
KTL-100	Kelvin Clip Leads
KAK-1M	Kelvin Alligator Clips
HKC-100	Large Kelvin Test Lead Set
BKP-10	Standard Kelvin Probe
MKP-6	Kelvin Probe
MCP-6	Miniature Kelvin Coaxial Probe

[View Accessory Datasheet](#)



BKP-10 Probe Set with "B" Style Pins Installed



BKP-10 HTP-100 Pistol Grip KTL-100



MKP-6 Probe Set with "B" Style Pins Installed

