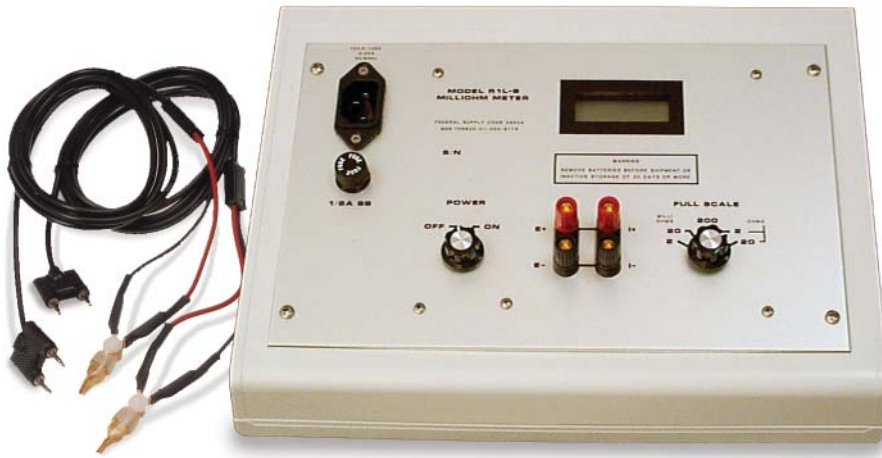


Micro-ohmmeter and Bond Tester



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

The R1L-B 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 metal bonding, switch, circuit breaker, circuit resistance and other contact and connection resistance tests as well as higher resistance measurements for circuit analysis and resistor testing up to 20 Ω. 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 3-1/2 digit display, reading from 1.999 to 199.9.

Front panel controls include a POWER ON-OFF switch and a rotary 5 range selector switch. Measurement connections are made via four front panel low thermal banana jacks. The units are compatible with all of PPM's probes and can be used with others.

One Pair of Kelvin test clips is supplied. The alligator style clips are gold plated to ensure accurate measurements every time. The leads are Kelvin connected from the input jacks to the device under test, eliminating errors caused by wire and connector resistance as well as contact resistance to the device under test. The clips have gripping serrations at the tips and a large rounded area for clamping on to diameters up to 5/8".

Both instruments operate from line power as well as internal rechargeable batteries. The BR is more suitable for portable "rugged" applications while the model B is suitable mainly for "in plant" environments.



Shown here, BC-10 probes used to measure contact resistance between shunt and circuit board trace

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.

Accessories

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

Physical and Power

R1L-B Size: 11.6"W X 4H" X 6.8"D
Weight: Approximately 5 Pounds

R1L-BR Size: 10"W X 5"H X 9"D
Weight: Approximately 6 pounds
Power: 120/240VAC 50/60 Hz
4 High Capacity rechargeable batteries are included

Model	Price	Note
HTP-100	\$800.00	Pistol Grip Probes
KTL-100	Included	Kelvin Clip Leads
SSP-10	\$499.00	Kelvin Probe with Stainless Steel Pins
BCP-10	\$449.00	Kelvin Probe with multiple beryllium copper pin types available



HTP-100 Pistol Grip KTL-100 BCP-10