VOLTAGE AND RESISTANCE PRODUCTS

Microohmmeter and Bond Tester



Model R1L-BI



 Rugged: MIL PRF2880F Class 3 (R1L-BIR)

• Low Cost: (R1L-BI)

 Portable: Long Rechargeable Battery Life

• Ranges: $2 \text{ m}\Omega$ to 20Ω

Accuracy: 0.25% of reading

Resolution: 1μΩSimple Operation

Offset Compensation

The R1L-BI series Ohmmeter/Bonding Tester is a digital microohmmeter designed to measure resistances up to $20~\Omega$. 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 $3\frac{1}{2}$ 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.



VOLTAGE AND RESISTANCE PRODUCTS

Specifications

Resistance	Ranges	and '	Test (Currents
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Full Scale	Resolution	Accuracy	lest Curren
1.999 mΩ	1 μΩ	0.25% of reading ± 1 count	1.4 A
19.99 m Ω	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 uA

Reactive loads not to exceed 2mH or 100 μ F with a minimum of 5 $\mu\Omega$ per μ H of series resistance.

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 to +50 ° C Storage Temperature: -40 to +71° C

Physical and Power R1L-BI

Size: 11.6"W X 4H" X 6.8"D

Weight: 3.6 lb

R1L-BIR

Size: 10"W X 5"H X 9"D

Weight: 6.7 lb

Power: 120/240VAC 50/60 Hz

3 High Capacity 'C' NiCad rechargeable batteries included

Accessories

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

0.19" (4.8 mm) Pin Spacing

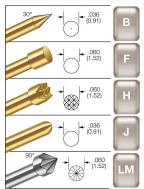
View Accessory Datasheet BKP-10 Probe Set with "B" Style Pins Installed



BKP-10 HTP-100 Pistol Grip KTL-100



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



BKP-10 Pin Options

MKP-10 Pin Options