

Baker RT45

Low Resistance Ohm Meter

For electric motor quality assurance



Fast, accurate Kelvin meter

The Baker RT45 is a Kelvin Ohm meter that accurately measures low resistances with a 4.5 digit resolution.

This meter is designed for production, repair or compliance testing of motors, coils, transformers, cables, thermal devices, resistors and other electrical devices. Its fast performance makes it suitable for high-volume coil production testing.

The RT45's low resistance accuracy makes it an excellent quality control testing device for large motor service and repair shops. It can also be used as a quality assurance tester for industrial shops that need to verify motors received back from service or repair are working properly.

This instrument has a 10-microOhm resolution within a 200 milliOhm range. It is capable of measuring resistances up to 200 kiloOhms.

Features

- Auto-range and fixed-range modes for each of seven resistance ranges
- Continuous or triggered measurement modes
- User-programmable pass/fail thresholds (set either as absolute values or nominal percentages)
- Easy to use panel controls
- Bright, readable LED readout
- Pass/high/low indicator
- I/O handler for remote control via discreet I/O lines
- Standard RS-232C port for programming and control



Product Specifications

Display range: 10 $\mu\Omega$ - 199.99 k Ω , 4.5 digits

Ranges:	Range	Resolution	Current
	20.00 k Ω - 199.99 k Ω	10 Ω	10 μ A
	2.000 k Ω - 19.999 k Ω	1 Ω	10 μ A
	200.0 Ω - 1.9999 k Ω	100 m Ω	100 μ A
	20.00 Ω - 199.99 Ω	10.0 m Ω	1 mA
	2.000 Ω - 19.999 Ω	1 m Ω	10 mA
	200.0 m Ω - 1.9999 Ω	100 $\mu\Omega$	100 μ A
	< 199.99 m Ω	10 $\mu\Omega$	100 mA

Accuracy: 0.05% of reading \pm 2 counts

Compensation: Zero function to short circuit compensate

Measurement time: Fast: 0.1 sec / Slow: 0.4 sec

Ranging modes: Auto and fixed

Measurement modes: Continuous or trigger

Trigger modes: Front panel or handler

Comparator functions: High and low, based upon absolute resistance or percentage

Comparator alarms: Visual, audible and handler

Interfaces: Handler, RS-232C, or optional IEEE-488

Handler I/O: Inputs: trigger Outputs: testing, pass, high, low

Input voltage: 115 VAC, 50 or 60 Hz, 30 VA

Included accessories: Power cord, Kelvin test clips, user manual

Dimensions: 270mm x 115mm x 340 mm (10.6" x 4.5" x 13.4")

Weight: 3.5 kg (7.5 lbs)

Options: RT45-K replacement Kelvin clips; RT45-GPIB IEEE-488 interface

For additional information on SKF Condition Monitoring products, contact:

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