

# CR50A

## Inductance, Capacitance and Resistance Tester

Sort, match, QC inspect and verify components, check circuits with this full range capacitance and resistance meter.

### Features

- **Dual zero adjustments pots to null strays and test leads**
- **“Low Ohms” range accurately measures low values of resistance**
- **Premium test leads with alligator clips**
- **“Zero Adjust” pots for low ohms and capacitance ranges**
- **Low battery indication**



#### Safety Certification

All Amprobe tools, including the Amprobe CR50A, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.



## Specifications

### General Specifications

Display Update Rate	2/sec, nominal
Power	Standard 9 V transistor battery
Battery Life	Alkaline 200 hours
Operating Temperature	32 °F to 122 °F (0 °C to 50 °C), <70 % R.H.
Storage Temperature	-4 °F to 140 °F (-20 °C to 60 °C), <80 % R.H. battery removed
Dimensions (W x L x H)	6.1 x 2.8 x 1.3 in (15.1 x 7.0 x 3.8 cm)
Weight (incl. batteries)	0.44 lb (0.2 kg)
Warranty	One year

### Resistance

Range	20 $\Omega$ , 200 $\Omega$ , 2 k $\Omega$ , 20 k $\Omega$ , 200 k $\Omega$ , 2 M $\Omega$ , 20 M $\Omega$
Accuracy	$\pm 2\%$ rdg (Zero Adjust) $\pm (1.0\% \text{ rdg} + 3 \text{ dgts})$ $\pm (1.2\% \text{ rdg} + 2 \text{ dgts})$ $\pm (3.0\% \text{ rdg} + 1 \text{ dgt})$
Resolution	0.01 in 20 $\Omega$
Open Circuit Voltage	3.0 VDC on 20 $\Omega$ and 200 $\Omega$ ranges
All Other Ranges	0.3 VDC

### Capacitance

Range	200 pF, 2000 pF, 2 $\mu$ F, 20 $\mu$ F, 200 $\mu$ F, 2 mF, 20 mF
Accuracy	$\pm (0.5\% \text{ rdg} + 1 \text{ dgt} + 0.5 \text{ pF})$ $\pm (0.5\% \text{ rdg} + 1 \text{ dgt})$ $\pm (1.0\% \text{ rdg} + 1 \text{ dgt})$ $\pm (1.5\% \text{ rdg} + 1 \text{ dgt})$
Test Frequency	820 Hz, 820 Hz, 82 Hz, 8.2 Hz, 8.2 Hz, 8.2 Hz
Test Voltage	3.5V

### Continuity

Audible Indication	ON $\leq 40 \Omega$ ; OFF $> 75 \Omega$
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### Diode Test

Test Current	1 mA (approx.)
Test Voltage	3.2 VDC
Display	Forward junction voltage

### Overload Protection

Resistance	500 VDC or AC RMS
Capacitance	0.1 A/250 V fast acting fuse
Continuity	500 VDC or AC RMS

**Included Accessories:** Test lead set (one black, one red), pair of alligator clips, 9 V battery (installed), spare 0.1A/250V fuse, holster, user manual  
**Optional Accessories:** VC30A Vinyl Case, DL243D Basic Test Lead Kit, DL248D Deluxe Test Lead Kit, TL36A Test Lead Set with Alligator Clips