



LCR55A

Handheld Component Tester

- The ultimate component checker measures inductance, capacitance, resistance, transistors, diodes and microwave diodes
- Plug-in test slots and test leads with threaded alligator clips
- Oversized, digital display
- Data Hold and Max Hold
- “Zero Adjust” Pot for Ohms
- Low Battery Indication
- Auto-Power Off

No hassle warranty

No waiting.

No shipping charges.



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive “No Hassle” warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

General Specifications

Display	3-1/2 digit LCD, max reading of 1999
Display Update Rate	2.5 /sec, nominal
Power	Standard 9 V transistor battery
Battery Life	Alkaline 200 hours
Operating Temperature	0 °C to + 50 °C (32 °F to 122 °F), < 70 % R.H.
Storage Temperature	-20 °C to +60 °C (-4 °F to 140 °F), < 80 % R.H. battery removed
Dimensions (WxLxH)	183 x 79 x 38 mm (7.2 in x 3.1 in x 1.5 in)
Weight (incl. batteries)	311 g (11 oz.)
Warranty	One year

Included Accessories

TL36A Test Leads, spare fuse, battery, (1) pair alligator clips, and users manual.

Optional Accessories

VC221B Vinyl Case
 DL243D Basic Test Lead Kit
 DL248D Deluxe Test Lead Kit
 TL245A Test Lead Set



LCR55A Handheld Component Tester

Data Sheet

Specifications (23 °C ± 5 °C, < 75 % R.H. non-condensing)

Function	Range	Accuracy
Resistance	20 Ω	± 1.2 % rdg (zero adjust)
	200 Ω	± (0.5 % rdg + 3 dgts)
	2 k Ω to 2 M Ω	± (0.5 % rdg + 1 dgt)
	20 M Ω	± (2.0 % rdg + 2 dgts)
Resolution	10 m Ω in 20 Ω range	
Open Circuit Voltage	20 Ω range: 6.5 V dc	
	200 Ω range: 3.0 V dc	
	All other ranges: 1.2 V dc	
Continuity		
Audible Indication	2 k Ω range: Tone at R < 30 Ω	
Response Time	800 ms approx.	
Diode Test		
Test Current	1 mA (approximately)	
Test Voltage	3.0 V DC	± (1.5 % rdg + 1 dgt)
Display	Forward junction voltage	
Microwave Diode Test		
Test Current	0.6 mA approximately	
Test Voltage	7.0 V DC typical	± (3.0 % rdg + 1 dgt)
Display	Forward junction voltage	
Capacitance		
	200 pF to 200 nF	± (1.0 % rdg + 1 dgt)
	2 μF to 200 μF	± (2.0 % rdg + 1 dgt)
	200 μF < 1000 μF	± (3.0 % rdg + 3 dgts)
	1000 μF > 2000 μF	± (5.0 % rdg + 5 dgts)
	<i>Note: In lower ranges, subtract 6 points residual offset reading from result</i>	
Test Frequency	200 pF to 2 μF: 1000 Hz	
	20 μF to 200 μF: 100 Hz	
	2000 μF: 10 Hz	
Temperature Coefficient	< 0.5 μF: 0.1%/°C	
	> 0.5 μF: 0.2%/°C	
Inductance		
	200 μH	± (5.0 % rdg + 30 dgts)*
	2 to 200 mH	± (3.0 % rdg + 20 dgts)*
	2 mH to 200 H	± (5.0 % rdg + 20 dgts)*
Test Frequency	200 μH to 2 H ranges: 1000 Hz	
	20 H to 200 H ranges: 100 Hz	
Temperature Coefficient	< 0.5 H: 0.2%/°C	
	> 0.5 H: 0.5%/°C	
Transistor Test		
hFE Range	0 to 1000	
hFE Base Current	3 μA approximately	
hFE Voltage C - E	3.0 V DC approximately	
I_{ceo} Range, Leakage Current	10 nA to 20 μA	
Overload Protection		
Resistance	350 V DC or AC RMS	
Capacitance	0.1 A/250 V fast acting fuse	
Continuity	350 V DC or AC RMS	
Diode Test	350 V DC or AC RMS	
Micro Wave Diode Test	350 V DC or AC RMS	
Inductance	0.1 A/250 V fast blow fuse	

*For values of Q ≤ 7

Amprobe® Test Tools

Contact:
 Industrial Process Measurement, Inc.
 3910 Park Avenue, Unit 7
 Edison, NJ 08820
 732-632-6400
 support@instrumentation2000.com
 http://www.instrumentation2000.com

©2007 Amprobe Test Tools. All rights reserved.
 7/2007 PN: 1646419 D-EN-N Rev C