

## Data Sheet

# LCR55

## Handheld Component Tester



## 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

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

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

\*For values of Q ≤ 7

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

Function	Range	Accuracy
<b>Overload Protection</b>		
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	

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

TL36 Test Leads, spare fuse, battery, (1) pair alligator clips, and operator's manual.

### Optional Accessories

H30Y Protective Holster  
 VC221A Vinyl Case  
 DL243C Basic Test Lead Kit  
 DL248C Deluxe Test Lead Kit  
 TL245 Test Lead Set

For additional accessories, see the Accessories Compatibility Guide at [www.metermantesttools.com](http://www.metermantesttools.com)

**No waiting.**

**No shipping charges.**



## No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Meterman test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

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### Meterman Test Tools

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 7/2005 1646419 D-EN-N Rev B