AMPROBE®

Data Sheet

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

CE N10140

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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)
	Note: In lower ranges, subtract 6 points residual offset reading from result	
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	
Iceo 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

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