

TECPREL

Precision LCR Instrument

200KHz LCR Instrument



LCR-200

- Measurement parameters: Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q and basic accuracy 0.1%.
- Test conditions: 100Hz, 120Hz, 1KHz, 10KHz, 100KHz, 200KHz; 1Vrms, 250mVrms, 50mVrms, 1Vdc(DCR only)
- DMM functionalities
- Dual LCD display with LED backlit
- Open/short calibration
- Remote binning capability
- Auto range/range hold selection
- RS-232 interface

Test conditions	
Frequency	100Hz/120Hz/1KHz/10KHz/ 100KHz/200KHz
Level	1V rms/250mVrms/ 50mVrms/ 1Vdc (DCR only)
Measurement parameters	Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q, and θ.
Basic accuracy	0.1%
Primary parameters display	
Z	AC impedance
DCR	DC resistance
Ls	Serial inductance
Lp	Parallel Inductance
Cs	Serial capacitance
Cp	Parallel capacitance
Secondary parameters display	
θ	Angle impedance
ESR	Equivalent series resistance
D	Dissipation factor
Q	Quality factor
Combinations of display	
Serial mode	Z-θ, Cs-D, Cs-Q, Cs-ESR, Ls-D, Ls-Q, Ls-ESR
Parallel mode	Cp-D, Cp-Q, Lp-D, Lp-Q

Measurement ranges	
Z	0,000 Ω to 500,0 MΩ
L	0,030 μH to 9999H
C	0,003 pF to 80,0 mF
DCR	0,000 Ω to 500,0 MΩ
ESR	0,000 Ω to 9999 Ω
D	0,000 to 9999
Q	0,000 to 9999
θ	-180,0° to 180,0°
V	0,000mV to ± 600,0V
I	0,000mA to ± 2,000A
DMM functionalities	DCV, ACV, DCA, ACA, Diode/continuity check
DC voltage	
Range	2V, 20V, 200V and 600V
Resolution	1mV, 10mV, 100mV, 1V
Accuracy	±(0,4%+ 3 digits)
Input impedance	1MΩ
AC voltage (true RMS)	
Range	2V, 20V, 200V and 600V
Resolution	1mV, 10mV, 100mV, 1V
Accuracy	±(0,8%+5 digits) @ 40Hz~1KHz
Input impedance	1MΩ

AC/DC current	
Range	2A, 0,2A, 20mA and 2mA
Resolution	1mA, 0,1mA, 0,01mA and 1uA
Accuracy	±(0,4%+3 digits) DC ±(0,8%+5 digits) AC@40Hz~1KHz
Current shunt	0,1Ω@current ≥ 20mA; 10Ω@current ≤ 20mA
Continuity check	
Continuity threshold	50Ω(approximately)
Continuity indicator	Tone buzzer
Input protection:	600V (max.)
Diode test	
Test current	2,5mA (typical)
Open circuit voltage	5,0VDC (nominal)
Input protection	600V (Max.)
General	
Temperature	0 to 40°C (operating) -20 to 70°C (storage)
Relative humidity	Up to 85%
AC power	110V/220V±10%, 60/50Hz
Dimensions (DxWxH)	300x220x150mm (11.8"x8.7"x5.9")
Weight	4.5 kgs
Standard accessories	TL-09C Kelvin clips x 1pc Test leads x 1pc

Optional Accessories

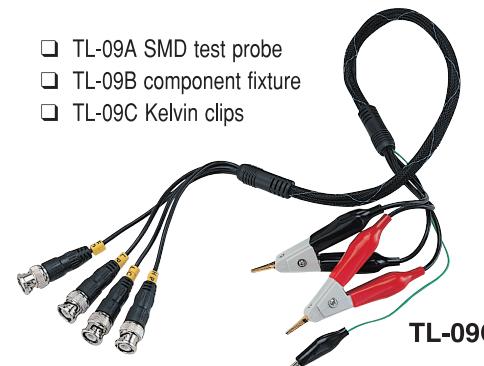


TL-09A



TL-09B

- TL-09A SMD test probe
- TL-09B component fixture
- TL-09C Kelvin clips



TL-09C