

TECPEL

200KHz LCR Meter



Key Features:

- Measurement Parameters: Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q, and θ
- 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-232C

LCR 200 SPECIFICATIONS

Test condition:

Frequency	: 100Hz/120Hz/1KHz/ 10KHz/100KHz/200KHz
Level	: 1Vrms/250mVrms/ 50mVrms/1Vdc (DCR only)
Measurement Parameters	: Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q and θ
Basic Accuracy	: 0.1
Dual Liquid Crystal Display with LED backlight	
Auto Range or Range Hold selection	
Open/Short Calibration	
RS232C Interface	

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

DMM Functionalities:

DCV, ACV, DCA, ACA, Diode/Continuity Check

Measurement Range:

Parameter	Range
Z	0.000 Ω to 500.0 M Ω
L	0.030 μ H to 9999 H
C	0.003 pF to 80.00 mF
DCR	0.000 Ω to 500.0 M Ω
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 \pm 600.0V
I	0.000mA to \pm 2.000A

DC Voltage Measurement:

Range	: 2V, 20V, 200V and 600V
Resolution	: 1mV, 10mV, 100mV, 1V
Accuracy	: \pm (0.4%+3digit)
Input Impedance	: 1M Ω

AC Voltage Measurement (True RMS):

Range	: 2V, 20V, 200V and 600V
Resolution	: 1mV, 10mV, 100mV, 1V
Accuracy	: \pm (0.8%+5digit) @ 40 Hz ~ 1 KHz
Input Impedance	: 1 M Ω

DC Current Measurement:

Range	: 2A, 0.2A, 20mA and 2mA
Resolution	: 1mA, 0.1mA, 0.01mA and 1 μ A
Accuracy	: \pm (0.4%+3digit)
Current Shunt	: 0.1 Ω @ current > 20mA 10 Ω @ current \leq 20mA

AC Current Measurement (True RMS):

Range	: 2A, 0.2A, 20mA and 2mA
Resolution	: 1mA, 0.1mA, 0.01mA and 1 μ A
Accuracy	: \pm (0.8%+5digit) @ 40 Hz ~ 1 KHz
Current Shunt	: 0.1 Ω @ current > 20mA 10 Ω @ current \leq 20mA

Continuity Check:

Continuity Threshold	: 50 Ω (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 \pm 10%, 60/50Hz
Dimensions	: 300mm x 220mm x 150mm (11.8" x 8.7" x 5.9") (D x W x H)
Weight	: 4.5 kgs

Standard Accessories:

- ① TL09C Kelvin clips 1 pc
- ② Test leads 1 pc

Optional Accessories:

- ③ TL09A SMD test probe
- ④ TL09B Component fixture



Specifications subject to change without notice.