

DT-9935 Professional LCR Meter

9935 LCR Meter features with an innovative automatic selection technology, automatically measuring L, C and R with Q, D and θ by just turn on the meter. The testing frequency is up to 10kHz and it can output up to 100kHz test frequency. It provides high accuracy with four or five terminal Kelvin measurements.

- Overload Indication
- Lower Battery Indication
- Auto Power Off

Specifications

Inductance	
Ranges	20uH-2000H
Resolution	0.001uH
Basic Accuracy	$\pm(0.2+5d)$
Capacitance	
Ranges	20pF-20mF
Resolution	0.001pF
Basic Accuracy	$\pm(0.2+3d)$
Resistance	
Ranges	20 Ω -2000M Ω
Resolution	0.001 Ω
Basic Accuracy	$\pm(0.2+2d)$
DC Resistance	
Ranges	20 Ω -2000M Ω
Resolution	0.001 Ω
Basic Accuracy	$\pm(0.2+2d)$
Q (quality)	
Ranges	0.000-999
Resolution	0.001
D (dissipation)	
Ranges	0.000-999
Resolution	0.001
Theta	
Ranges	± 90 degree
Resolution	1 degree

Da b e m b d ß a t i c h a s i n g



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61010-02-032
EN: 61010-02-033

Size(HxWxD): 220mm x 96mm x 60mm

Weight: 360g

Accessories:

Test leads and 6 x 1.5V "AA" batteries, gift box with carrying case.



Model 9935

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The LCR meter could measure Inductance Resistance with secondary parameter dissipation factor (D), quality factor (Q), phase angle (θ), equivalent series/parallel resistance (ESR or R_p). The meter is fully auto ranging operation for AC impedance & DC resistance measurement. It means the user could measure the L/C/R components directly at AUTOLCR smart mode without changing the function key. User could also select the target test frequencies of 100Hz/120Hz/1kHz/10kHz/100kHz depending on DUT(device under test) type. Components could be measured in series or parallel mode according to the DUT impedance automatically.

DT-9935

DIGITAL LCR-Q METER



- | Dual LCD display
- | Auto LCR smart check and measurement
- | Series/Parallel modes are selectable
- | Ls/Lp/Cs/Cp with D/Q/ θ /ESR parameters
- | Support DCR mode 200.00 Ω ~ 200.0M Ω
- | Five different test frequency are available: 100/120/1k/10k/ 100k Hz
- | Test AC signal level: 0.6mVRMS typ.
- | Test range: (ex. F=1kHz)
L : 200.00 μ H ~ 2000.0 H C : 2000.0 pF ~ 2.000 mF
R : 20.000 Ω ~ 200.0 M Ω
- | Multi-level battery voltage detector
- | Support Backlight & Buzzer sound driver
- | Primary Parameters Display:
DCR : DC Resistance Ls : Serial Inductance
Lp : Parallel Inductance Cs : Serial Capacitance
Cp : Parallel Capacitance Rs : Serial Resistance
Rp : Parallel Resistance
- | Second Parameter Display:
 θ : Phase Angle ESR : Equivalence Serial Resistance
D : Dissipation Factor Q : Quality Factor
- | Auto power off
- | Battery detect
- | Hold mode
- | Relative mode

Electrical Specifications

Inductance @ Ta = 18 ~ 28°C (De)

Frequency = 100 Hz/120 Hz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
20.000mH	1uH	1.5%±10d	1.5%±50d	Series
200.00mH	0.01mH	1.4%±15d	1.4%±50d	Series
2000.0mH	0.1mH	1.5%±15d	1.5%±50d	Series
20.000H	1mH	1.6%±10d	1.6%±50d	---
200.00H	0.01H	1.3%±10d	1.3%±50d	Parallel
2000.0H	0.1H	2.0%±15d	2.0%±50d	Parallel
20.000kH	0.001kH	2.5%±15d	2.5%±0d	Parallel

Frequency = 1kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
2000.0uH	0.1uH	1.3%±10d	1.3%±50d	Series
20.000mH	1uH	1.2%±10d	1.2%±50d	Series
200.00mH	0.01mH	1.2%±10d	1.2%±50d	Series
2000.0mH	0.1mH	1.5%±15d	1.5%±50d	---
20.000H	1mH	1.5%±15d	1.5%±50d	Parallel
200.00H	0.01H	2.0%±10d	2.0%±50d	Parallel
2000.0H	0.1H	2.5%±15d	2.5%±50d	Parallel

Frequency = 10kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
200.00uH	0.01uH	1.8%±10d	1.8%±50d	Series
2000.0uH	0.1uH	1.5%±10d	1.5%±50d	Series
20.000mH	1uH	1.2%±10d	1.2%±50d	Series
200.00mH	0.01mH	1.5%±15d	1.5%±50d	---
2000.0mH	0.1mH	2.0%±10d	2.0%±50d	Parallel
20.000H	1mH	2.5%±15d	2.5%±50d	Parallel

Frequency = 100kHz

Range	Resolution	Lx Accuracy	DF Accuracy	Measurement Mode
20.000uH	0.001uH	2.5%±10d	2.5%±50d	Series
200.00uH	0.01uH	1.5%±10d	1.5%±50d	Series
2000.0uH	0.1uH	1.3%±15d	1.3%±50d	Series
20.000mH	1uH	2.0%±15d	2.0%±50d	Parallel
200.00mH	0.01mH	2.5%±15d	2.5%±50d	Parallel

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Electrical Specifications

Capacitance @ Ta = 18 ~ 28°C (De)

Frequency = 100 Hz/120 Hz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
20.000nF	1pF	2.5%±10d	2.5%±50d	Parallel
200.00nF	0.01nF	1.2%±10d	1.2%±50d	---
2000.0nF	0.1nF	0.9%±10d	0.9%±50d	---
20.000uF	1nF	1.0%±15d	1.0%±50d	Series
200.00uF	0.01uF	1.2%±10d	1.2%±50d	Series
2000.0uF	0.1uF	2.5%±10d	2.5%±50d	Series
20.00mF	0.01mF	5.0%±10d	5.0%±50d	Series

Frequency = 1kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
20.000nF	1pF	2.5%±10d	2.5%±50d	Parallel
200.00nF	0.01nF	1.2%±10d	1.2%±50d	---
2000.0nF	0.1nF	0.9%±10d	0.9%±50d	---
20.000uF	1nF	1.0%±15d	1.0%±50d	Series
200.00uF	0.01uF	1.2%±10d	1.2%±50d	Series
2000.0uF	0.1uF	2.5%±10d	2.5%±50d	Series
20.00mF	0.01mF	5.0%±10d	5.0%±50d	Series

Frequency = 10kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
200.00pF	0.01pF	3.0%±8d	3.0%±50d	Parallel
2000.0pF	0.1pF	1.0%±10d	1.0%±50d	---
20.000nF	1pF	0.9%±10d	0.9%±50d	---
200.00nF	0.01nF	0.8%±10d	0.8%±50d	Series
2000.0nF	0.1nF	1.0%±8d	1.0%±50d	Series
20.000uF	1nF	2.0%±8d	2.0%±50d	Series
200.0uF	0.1uF	4.5%±15d	4.5%±50d	Series

Frequency = 100kHz

Range	Resolution	Cx Accuracy	DF Accuracy	Measurement Mode
200.00pF	0.01pF	2.5%±15d	2.5%±50d	Parallel
2000.0pF	0.1pF	1.0%±8d	1.0%±50d	Parallel
20.000nF	1pF	1.8%±8d	1.8%±50d	Parallel
200.00nF	0.01nF	1.5%±10d	1.5%±50d	Series
2000.0nF	0.1nF	2.5%±15d	2.5%±50d	Series

Resistance @ Ta = 18 ~ 28°C(De)

Frequency = 100 Hz/120 Hz

Range	Resolution	Rx Accuracy	Measurement Mode
200.00Ω	0.01Ω	1.2%±10d	---
2.0000kΩ	0.1Ω	0.8%±5d	---
20.000kΩ	1Ω	0.9%±5d	---
200.00kΩ	0.01kΩ	0.7%±3d	---
2.0000MΩ	0.1kΩ	1.0%±5d	---
20.000MΩ	1kΩ	2.2%±10d	---
200.0MΩ	0.1MΩ	2.5%±10d	---

Frequency = 1kHz

Range	Resolution	Rx Accuracy	Measurement Mode
20.000Ω	1mΩ	1.2%±10d	---
200.00Ω	0.01Ω	0.8%±5d	---
2.0000kΩ	0.1Ω	0.8%±3d	---
20.000kΩ	1Ω	0.7%±3d	---
200.00kΩ	0.01kΩ	1.0%±5d	---
2.0000MΩ	0.1kΩ	1.5%±10d	---
20.000MΩ	1kΩ	1.8%±10d	---
200.0MΩ	0.1MΩ	6.0%±50d	---

Frequency = 10kHz

Range	Resolution	Rx Accuracy	Measurement Mode
20.000Ω	1mΩ	1.5%±10d	---
200.00Ω	0.01Ω	0.8%±10d	---
2.0000kΩ	0.1Ω	0.9%±5d	---
20.000kΩ	1Ω	0.8%±3d	---
200.00kΩ	0.01kΩ	1.0%±5d	---
2.0000MΩ	0.1kΩ	2.5%±10d	---
20.00MΩ	0.01MΩ	2.8%±10d	---

Frequency = 100kHz

Range	Resolution	Rx Accuracy	Measurement Mode
20.000Ω	1mΩ	2.3%±10d	---
200.00Ω	0.01Ω	1.5%±5d	---
2.0000kΩ	0.1Ω	0.8%±20d	---
20.000kΩ	1Ω	0.8%±20d	---
200.00kΩ	0.01kΩ	1.5%±10d	---
2.000MΩ	1kΩ	2.5%±30d	---

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Electrical Specifications

DC Resistance @ Ta = 18 ~ 28°C (De)

Frequency = 100Hz/120Hz/1kHz/10kHz/100kHz

Range	Resolution	Rx Accuracy	Measurement Mode
200.00Ω	±0.01Ω	1.8%±10d	---
2.0000kΩ	±0.1Ω	0.6%±20d	---
20.000kΩ	±1Ω	0.6%±10d	---
200.00kΩ	±0.01kΩ	0.5%±3d	---
2.0000MΩ	±0.1kΩ	1.5%±5d	---
20.000MΩ	±1kΩ	2.0%±5d	---
200.0MΩ	±0.1MΩ	2.5%±5d	---

D value Accuracy @ Ta = 18 ~ 28°C (De)

Freq. / Z	0.1- 1Ω	1-10Ω	10-100kΩ	100k-1MΩ	1M-20MΩ	20M-200MΩ
100/120Hz	±0.030	±0.010	±0.009	±0.010	±0.020	±0.040
1kHz	±0.030	±0.010	±0.009	±0.010	±0.020	±0.090
10kHz	±0.030	±0.010	±0.009	±0.009	±0.010	±0.040
100kHz	±0.040	±0.030	±0.010	±0.010	±0.020	±0.040

D value Accuracy @ Ta = 18 ~ 28°C (De)

Freq. / Z	0.1- 1Ω	1 - 10Ω	10 - 100kΩ	100k-1MΩ	1M-20MΩ	20M-200MΩ
100/120Hz	±0.65°	±0.36°	±0.23°	±0.45°	±0.65°	±1.35°
1kHz	±0.65°	±0.36°	±0.23°	±0.45°	±0.65°	±3.63°
10kHz	±0.65°	±0.36°	±0.23°	±0.45°	±1.35°	N/A
100kHz	±1.27°	±0.65°	±0.49°	±0.65°	±1.35°	

Accessories

Carrying Case, Test Lead set, SMT Clip, Battery, Instruction Manual and Test Certificate.

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