

INSTEK HIGH PRECISION LCR METERS*Models LCR-819 and LCR-821**Part Nos. 01LCR819 and 01LCR821*Back to [LCR Meter Page](#) Main Page**LCR-819**

FEATURES :

- * Test Frequency: 12Hz~100kHz
- * Continuously Variable Frequencies
- * 0.05% High Measurement Accuracy
- * 100 Sets Memory for Save/Recall of Setup State
- * R/Q, C/D, C/R, L/Q Test Modes
- * Absolute Value, Δ Value, and Δ % Measurement Display
- * 240 x 128 dot Matrix LCD Display
- * Test Condition and Test Result Shown on the Screen Simultaneously
- * Option: RS-232C (Including LCR-Viewer Software)

LCR-819 (12Hz~100kHz)

SPECIFICATIONS

TEST FREQUENCY	12Hz ~ 100kHz (503 steps) for LCR-819/829		
BASIC ACCURACY	0.05%		
TEST SPEED	68ms		
TEST SIGNAL LEVELS	5mV~1.275V (5mV/step)		
DC BIAS	Internal	2V	
	External	0 to 30V	
DISPLAY RANGE	Impedance/Resistance	R	0.00001 Ω ~ 99999k Ω
	Capacitance	C	0.00001pF ~ 99999 μ F
	Inductance	L	0.00001mH ~ 99999H
	Quality factor	Q	0.0001 ~ 9999
	Dissipation Factor	D	0.0001 ~ 9999
TEST MODE	R/Q, C/D, C/R, L/Q		
EQUIVALENT CIRCUIT	Parallel or serial selectable		
MEMORY	100 memory blocks totally		
AVERAGE	1 to 255 times		
TEST SPEED MODE	SLOW, MEDIUM and FAST		
DISPLAY MODE	Value, Δ , Δ %		
DISPLAY	240 x 128 dot matrix C.C.F.L back light LCD		
INTERFACE (OPTION)	RS-232C (Including LCR-Viewer Software) for LCR-819/817		
POWER SOURCE	100V ~ 240V, 50/60Hz		
ACCESSORIES	Power cord x1, Instruction manual x 1, LCR-06A x 1 Option Fixture : LCR-05, LCR-07, LCR-08, LCR-09		
DIMENSIONS & WEIGHT	330 (W) x 149 (H) x 437 (D)mm, Approx. 5.5kg		

ISO-9001 & ISO-14001



LCR-821

FEATURES :

- * **Test Frequency: 12Hz ~ 200kHz, Continuously Variable Frequencies**
- * **0.1% Measurement Accuracy**
- * **100 Sets Memory for Save/Recall of Setup State**
- * **R/Q, C/D, C/R, L/Q, Z/ θ , L/R Test Modes**
- * **Absolute Value, Δ Value, and Δ % Measurement Display**
- * **240 x 128 dot Matrix LCD Display**
- * **Test Condition and Test Result Shown on the Screen Simultaneously**
- * **RS-232C (Including LCR-Viewer Software) (Standard)**

LCR-821 (12Hz~200kHz)

SPECIFICATIONS

TEST FREQUENCY	12Hz ~ 200kHz (504 steps)		
BASIC ACCURACY	0.1% for basic accuracy		
TEST SIGNAL LEVELS	5mV ~ 1.275V (5mV/step)		
DC BIAS	Internal	2V	
	External	0 ~ 35V	
DISPLAY RANGE	Resistance	R	0.00001 Ω ~ 99999k Ω
	Capacitance	C	0.00001pF ~ 99999 μ F
	Inductance	L	0.00001mH ~ 99999H
	Quality Factor	Q	0.0001 ~ 9999
	Dissipation Factor	D	0.0001 ~ 9999
	Impedance	 Z 	0.00001 Ω ~ 99999k Ω
	Phase Angle (Degree)	θ	-180.00° ~ 180.00°
TEST MODE	R/Q, C/D, C/R, L/Q, Z/ θ , L/R		
EQUIVALENT CIRCUIT	Parallel or Serial selectable		
MEMORY	100 memory blocks totally		
AVERAGE	1 to 255 times		
TEST SPEED MODE	SLOW, MEDIUM and FAST		
DISPLAY MODE	Value, Δ , Δ %		
DISPLAY	240 x 128 dot matrix C.C.F.L back light LCD		
INTERFACE (STANDARD)	RS-232C		
AC POWER SOURCE	100V ~ 240V		
LINE FREQUENCY	50/60Hz		
OPERATION TEMPERATURE	10° C ~ 50° C		
STORAGE TEMPERATURE	-20° C ~ 60° C		
ACCESSORIES	Power cord x1, Instruction manual x 1, LCR-06A x 1 Option Fixture : LCR-05, LCR-07, LCR-08, LCR-09		
DIMENSIONS & WEIGHT	330 (W) x 149 (H) x 437 (D)mm, Approx. 5.5kg		

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