

**ELC-131D & ELC-3131D Specifications**

<b>ELC-3131D</b>		<b>ELC-131D</b>	
<b>Features Include:</b> Full autorange, two major measuring methods: parallel and series, 2W/4W selections (ELC-3131D only). two selected frequencies, max/min/avg record, D/Q factor test mode, relative mode, calibration, tolerance mode, auto power off (ELC-131D only).			
<b>Parameters Measurement:</b> L, C, R, and D/Q			
<b>Measurement Circuit Mode:</b> 1) Capacitance/Resistance Measurement-Defaults to parallel mode for all ranges. 2) Inductance Measurement-Defaults to series mode for all ranges. Both parallel and series mode data are available through simple key operation.			
<b>Display:</b> L/C/R: maximum 9999 display except at 10mF (120Hz) and 1mF (1kHz) measurement ranges which have max 1999 display D/Q: 3 digits, maximum 999 display (AUTO RANGE)			
<b>Ranging Mode:</b> Auto & manual			
<b>Test Frequency:</b> 1kHz & 120Hz			
<b>Measurement Rate:</b> 1 measurement/second, normal			
<b>Response Time:</b> 1 second/DUT (device under test) @ manual range			
<b>Power Requirement:</b> AC 100/120/220/240V 50/60Hz			
		(1) DC 9V battery (2) External DC Adaptor-DC12V (MIN)-15V (MAX) (load: 50mA min)	
<b>Size:</b> 26 (W) x 21 (L) x 7 (H) cm; 1.4kg approx.			
		90 (W) x 192 (L) x 37 (H) mm; 390 grams	
<b>Standard Accessories:</b> Test alligator clips (2 pair), Power cord, square fuse (0.1A or 0.2A AC fast-blow), manual		<b>Standard Accessories:</b> Test alligator clips, battery, manual <b>Optional Accessories:</b> Holster, DC 12V power adaptor	
<b>Resistance</b> <b>RANGE:</b> 10MΩ, 1MΩ, 100kΩ, 10kΩ, 1kΩ, 100Ω, 10Ω <b>Accuracy:</b>			
@ 10MΩ	± (0.6% + 5 digits)	1kHz only	@ 10MΩ ± (2.0% + 8 digits) 1kHz only
@ 1MΩ	± (0.3% + 3 digits)		@ 1MΩ ± (0.5% + 5 digits)
@ 100kΩ	± (0.3% + 2 digits)		@ 100kΩ ± (0.5% + 3 digits)
@ 10kΩ	± (0.3% + 2 digits)		@ 10kΩ ± (0.5% + 3 digits)
@ 1kΩ	± (0.3% + 2 digits)		@ 1kΩ ± (0.5% + 3 digits)
@ 100Ω	± (0.5% + 3 digits)		@ 100MΩ ± (0.5% + 5 digits)
@ 10Ω	± (0.6% + 5 digits)		@ 10Ω ± (1.2% + 8 digits)
<b>Inductance</b> <b>Test Frequency:</b> 120Hz/1kHz (DF < 0.5) <b>RANGE:</b> 10000H, 1000H, 100H, 10H, 1H, 100mH, 10mH, 1mH <b>Accuracy:</b>			
@ 10000H	± (0.3% + (Lx/10000)% + 5 digits)	1kHz only	@ 10000H Accuracy not specified 120Hz only
@ 1000H	± (0.3% + (Lx/10000)% + 5 digits)		@ 1000H ± (1.0% + (Lx/10000)% + 5 digits) 120Hz only
@ 100H	± (0.3% + (Lx/10000)% + 5 digits)		@ 100H ± (0.7% + (Lx/10000)% + 5 digits) 120Hz
@ 10H	± (0.3% + (Lx/10000)% + 5 digits)		± (1.0% + (Lx/10000)% + 5 digits) 1kHz
@ 1H	± (0.3% + (Lx/10000)% + 5 digits)		@ 10H ± (0.7% + (Lx/10000)% + 5 digits)
@ 100mH	± (0.3% + (Lx/10000)% + 5 digits)		@ 1H ± (0.7% + (Lx/10000)% + 5 digits)
@ 10mH	± (0.3% + (Lx/10000)% + 5 digits)		@ 100mH ± (1.0% + (Lx/10000)% + 5 digits) 120Hz
@ 1mH	± (0.3% + (Lx/10000)% + 5 digits)	1kHz only	± (0.7% + (Lx/10000)% + 5 digits) 1kHz
			@ 10mH ± (2.0% + (Lx/10000)% + 5 digits) 120Hz
			± (1.2% + (Lx/10000)% + 5 digits) 1kHz only
			@ 1mH ± (2.0% + (Lx/10000)% + 5 digits) 1kHz only
<b>Capacitance</b> <b>RANGE:</b> 10MF, 1000μF, 100μF, 10μF, 1000nF, 100nF, 10nF, 1nF <b>Accuracy:</b>			
@ 10mF	± (2.5% + 5 digits) (DF < 0.1)	120Hz only	@ 10mF ± (5.0% + 5 digits) (DF < 0.1) 120Hz only
@ 1000μF	± (0.6% + 5 digits) (DF < 0.1)	120Hz	@ 1000μF ± (1.0% + 5 digits) (DF < 0.1) 120Hz
@ 1mF	± (2.5% + 5 digits) (DF < 0.1)	1kHz	@ 1mF ± (5.0% + 5 digits) (DF < 0.1) 1kHz
@ 100μF	± (0.4% + 3 digits) (DF < 0.5)	120Hz	@ 100μF ± (0.7% + 3 digits) (DF < 0.5) 120Hz
	± (0.6% + 5 digits) (DF < 0.1)	1kHz	± (1.0% + 5 digits) (DF < 0.1) 1kHz
@ 10μF	± (0.4% + 3 digits) (DF < 0.5)	120Hz	@ 10μF ± (0.7% + 3 digits) (DF < 0.5)
	± (0.4% + 3 digits) (DF < 0.5)	1kHz	@ 100nF ± (0.7% + 3 digits) (DF < 0.5)
@ 100nF	± (0.4% + 3 digits) (DF < 0.5)	120Hz	@ 1000nF ± (0.7% + 3 digits) (DF < 0.5)
	± (0.4% + 3 digits) (DF < 0.5)	1Hz	@ 10nF ± (1.0% + 5 digits) (DF < 0.1) 120Hz
@ 1000nF	± (0.4% + 5 digits) (DF < 0.5)	120Hz	± (0.7% + 5 digits) (DF < 0.5) 1kHz
	± (0.4% + 3 digits) (DF < 0.5)	1kHz	@ 1000pF ± (1.0% + 5 digits) (DF < 0.1) 1kHz only
@ 10nF	± (0.6% + 5 digits) (DF < 0.1)	120Hz	
	± (0.4% + 5 digits) (DF < 0.5)	1kHz	
@ 100pF	± (0.6% + 5 digits) (DF < 0.1)	1kHz only	