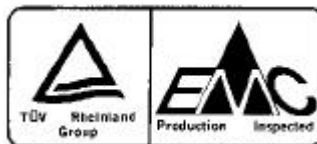


ESCORT

UNIVERSAL LCR METER

CE Certified by TÜV



東方科技公司 ORIENTAL TECHNOLOGY COMPANY



O/B ORIENTAL TECH DEVELOPMENT LTD.

Unit 2203, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong.

Tel: 852-24023200

Fax: 852-24133100

<http://www.otdl.com>

info@otdl.com



0.3% Basic Accuracy Wide Range of Applications

The ELC-3131D can provide a higher 0.3% average accuracy. It is capable of measuring electrolytic/ceramic capacitors, transforms, filter coil, voice-coil of speaker, as well as ordinary LCR components. It also provides many special features which designed for different applications.



Static Recordingä Function

The Static Recording™ Function provides convenient statical application when measuring a bundle of components in both tape & reel and bulk packing.

Press the "DH/MAX/MIN/AVG" pushbutton for one second to enter the static recording mode. The maximum and minimum readings are then stored in memory, while a beeping tone is produced when a new tested value has been recorded. Push the same button to cycle through the maximum, minimum and average of the present readings. The MAX, MIN or AVG annunciators will turn on to indicate what value is being displayed. Whenever the "MAX/MIN/AVG" annunciators appear on the LCD simultaneously, the display reading is always a present value. To exit this mode, press and hold the pushbutton for one second.



Tolerance Mode

The tolerance modes are 1%, 5% and 10% respectively for the Inductance, Capacitance and Resistance functions. Press the key again to cycle through 1%, 5% and 10% tolerance as desire.

This feature is designed for convenient component sorting. Now, you can concentrate on your work without tooling at the meter because this mode provides a single "Be-Be-Be" for NO-GO component identification.



Relative Mode for Deviation Measurement

This function is especially good for value corelation and comparison applications.

Press the "REL" key to enter the relative mode. This sets the display at zero and stores the display reading as a reference value. It will then display all subsequent readings in terms of their plus or minus value in comparison to the original stored value. Press the button again to exit the relative mode.



Automatic, Convenient Operation and Large, Back-light, Easy-to-Read LCD Display

The ELC-3131D and ELC-131D provide fully pushbutton operation and fully autoranging capability on all functions. Simply press the appropriate button, the meter automatically selects the range with the best accuracy and resolution.

And the ELC-3131D provide backlight function and the ELC-3131D's 58 x 37mm LCD is the largest available on any comparably sized meter, providing users with "at-a-glance" readability.

東方科技公司 ORIENTAL TECHNOLOGY COMPANY



O/B ORIENTAL TECH DEVELOPMENT LTD.

Unit 2203, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong.

Tel: 852-24023200

Fax: 852-24133100

<http://www.otdl.com>

info@otdl.com

Dual-Frequency (120Hz/1kHz) capability

It is most importance that the user tested and evaluated the components at same measuring frequency as components actual operating frequency. The ELC-3131D and ELC-131D provide two most commonly used test frequency – 120Hz, 1kHz to simulate the actual component application condition. For example, the voice-coil is generally rated at 1kHz but for the power circuit application is rated at 120Hz.

The default testing frequency of ELC-3131D and ELC-131D is 1kHz, to toggle between the 120Hz and 1kHz, simply press the "120Hz/1kHz" button.

Parallel/Series Mode

The ELC-3131D and ELC-131D LCR meter are capable of showing all the measured value in series or parallel equivalent circuit.

The parallel mode is default for Capacitance and Resistance measurements and the series mode is default for Inductance measurement. Each data can be transformed to the other mode by press the "DH" key and then press and hold "D/Q" button for one second.

Calibration

This function calibrates the meter's internal parameters as well as external connector residues. It is high or low ranges for L, C and R, before making precision measurements. Calibration prompts will be displayed automatically every time those ranges are manually or functionally selected, (eg. Rel, Tol, MIN/MAX/AVG etc.), and calibration is recommended. Simply follow the open connector (Opn) or short connector (Srt) instruction and then press the "REL (CAL)" button. You may skip the calibration by pressing the "D/Q" button. To request for calibration prompt in any range, simply press and hold "REL (CAL)" key for one second.

Dual Display, Dual-Parameters Measurements

Component values differ practically in Series and Parallel equivalent circuit, the meter provides both mode dates for advanced circuit application.

This unique capability allows the meter to simultaneously display both the numerical L/C/R values as well as D/Q (dissipation/Quality) factor of any inductance or capacitance measurement. The secondary display may show component values in terms of percentage when tolerance mode is activated; status of PARALLEL or SERIES mode data, etc.

Dual-Wire (2W/4W) Measurement

The ELC-3131D provides 2 Wires and 4 Wires measurements.

Press the "2W/4W" button to select the function you want. In 2W function, ELC-3131D provides general and simple operation. In 4W function, ELC-3131D provides higher accuracy measurements for user.

東方科技公司 ORIENTAL TECHNOLOGY COMPANY



O/B ORIENTAL TECH DEVELOPMENT LTD.

Unit 2203, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, N.T., Hong Kong.

Tel: 852-24023200

Fax: 852-24133100

<http://www.otdl.com>

info@otdl.com

ELC-3131D & ELC-131D Specifications

ELC-3131D			ELC-131D		
Features Include: 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).					
Parameters Measurement: L, C, R, and D/Q					
Measurement Circuit Mode: 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 date are available through simple key operation.					
Display: 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)					
Ranging Mode: Auto & manual					
Test Frequency: 1kHz & 120Hz					
Measurement Rate: 1 measurement/second, normal					
Response Time: 1 second/DUT (device under test) @ manual range					
Power Requirement: AC 100/120/220/240V 50/60Hz			(1) DC 9V battery (2) External DC Adaptor-DC12V (MIN)-15V (MAX) (load: 50mA min)		
Size: 26 (W) x 21 (L) x 7 (H) cm; 1.4kg approx.					
Standard Accessories: Test alligator clips (2 pair), Power cord, square fuse (0.1A or 0.2A AC fast-blow), manual			Standard Accessories: Test alligator clips, battery, manual Optional Accessories: Holster, DC 12V power adaptor		
Resistance RANGE: 10MΩ, 1MΩ, 100kΩ, 10kΩ, 1kΩ,100Ω, 10Ω Accuracy:					
@ 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)	
Inductance Test Frequency: 120Hz/1kHz (DF < 0.5) RANGE: 10000H, 1000H, 100H, 10H, 1H, 100mH, 10mH, 1mH Accuracy:					
@ 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	
			@ 1mH	± (2.0% + (Lx/10000)% + 5 digits) 1kHz only	
Capacitance RANGE: 10MF, 1000μF, 100μF, 10μF, 1000nF, 100nF, 10nF, 1nF Accuracy:					
@ 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			