

## 다운 로드



Cataloge Download



User Manual Download

## 일반 사양

The 878B, 879B, and 880 40,000-count handheld LCR meters measure inductance, capacitance, and resistance quickly and precisely. The 879B and 880 also measures impedance, Theta, DCR, and ESR. Additionally, the 880 offers capabilities typically only found in bench LCR meters such as a 4-terminal configuration, basic measurement accuracy up to 0.1%, test frequencies up to 100 kHz, selectable test signal levels and measurement rate.

Fast auto ranging and quick measurement configuration such as measurement parameter and test frequency selection make these meters very simple to operate. The meter also includes handy functions such as data hold, Min/Max/Average recording, tolerance sorting, and relative mode.

Measurement data can continuously transfer to a PC via the meter's mini USB interface, using either the provided data logging software or SCPI commands sent from a custom program.

## 제품 특징

- ◆ 40,000 counts resolution on primary and 10,000 counts resolution on secondary display
- ◆ L, C, R, and Z (879B & 880 only) primary measurements
- ◆ Automatic calculation of secondary parameters D, Q, Theta, ESR (Theta/ESR for 879B & 880 only), and DCR (880 only)
- ◆ Accuracy up to 0.1% and selectable test frequencies up to 100 kHz (880 only)
- ◆ Fast auto range design for rapid, easy component measurements
- ◆ Auto detect mode for automatic component type identification and measurement type selection (880 only)
- ◆ Relative mode
- ◆ Visible and audible tolerance mode
- ◆ Backlit display (879B & 880 only)
- ◆ Data Hold and Min/Max/Average recording
- ◆ USB (Virtual COM) interface
- ◆ SCPI compliant commands for remote communication
- ◆ Software for datalogging and front panel emulation available as free download
- ◆ Configurable power-up-states
- ◆ All commonly requested accessories included (880 only)

### Applications

- ◆ Passive component troubleshooting
- ◆ Electronic assembly
- ◆ Quality control (component sorting)

## 제품 스펙

## Specifications

Model	878B	879B	880
Measurement Parameters	L/C/R/D/Q	L/C/R/Z/D/Q/θ/ESR	L/C/R/Z/DCR/D/Q/θ/ESR
Test Frequency Setting	120 Hz, 1 kHz	100 Hz, 120 Hz, 1 kHz, 10 kHz	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
Actual Frequency (±0.02%)	120.048 Hz, 1 kHz	100 Hz, 120.048 Hz, 1 kHz, 10 kHz	100 Hz, 120.048 Hz, 1 kHz, 10 kHz, 100 kHz
Tolerance Mode	1%, 5%, 10%	1%, 5%, 10%, 20%	
Backlit Display	None	Yes	
Test Signal Level (Typical)	0.6 Vrms		0.3 Vrms, 0.6 Vrms, 1 Vrms. DCR signal: 1 Vdc
Measuring Circuit Mode	Series mode / Parallel mode		
Basic Accuracy	0.5%		0.1%
Ranging Mode	Auto		
Measuring Terminals	3 terminals with sockets		3-terminal, 5-terminal with sockets
Measurement Rate	1.5 readings/sec (auto range search not included)		LCRZ: 4 readings/sec (Fast), 1.5 readings/sec (Slow) DCR: 3 readings/sec (Fast), 2.5 readings/sec (Slow)
Response Time (Typical)	680 ms		
Auto Power-Off	5, 15, 30, 60 minutes, none		
Operating Temperature	32° F to 104° F (0° to 40° C); 0-70% R.H.		32° F to 104° F (0° to 40° C); ≤90% R.H.
Storage Temperature	-4° F to 122 °F (-20° to +50° C); 0-80% R.H.		-4° F to 104° F (-20° to 50° C); 0-90% R.H.
Low Battery Indication (Typical)	6.8 V		
Battery Life (Typical)	16 hours using alkaline battery (at 1 kHz with 100 Ω DUT, backlight off), 6 hours using Ni-MH (880 only)		
Power Consumption (Typical)	28 mA (under full power battery) for operation/ 2 μA (11 μA 880 only) after power-off.		
Power Requirements	9V battery or Ext. AC adapter*: DC 12 Vmin –15 Vmax. (load 50 mA Min.)		
Dimensions (L x W x H)	7.5" x 3.5" x 1.6" (190 x 90 x 41) mm		
Weight	0.767 lbs (348 g) without battery		
Safety	EN61010-1:2001, EU Low Voltage Directive 2006/95/EC		
Electromagnetic Compatibility	Meets EMC Directive 2004/108/EC, EN61326-1:2006		
<b>Three-Year Warranty</b>			
Standard Accessories	Banana-to-alligator test leads, 9 V battery, mini USB interface cable, manual, AC adapter* (879B only)		Banana-to-alligator test leads, Ni-MH 9 V battery, mini USB interface cable, Quick Start insert, AC adapter* shorting plate, four-terminal shielded Kelvin clip test leads (TL8KI), SMD tweezer (TL8SM)

\* The 879B and 880 include a 120 V AC adapter. For a 230 V AC adapter, order model 879B-220 V or 880-220 V. The AC adapters are optional accessories for the 878B.