

# The Smarter way to Characterize Components



**NEW**



## LCR-8200 Series

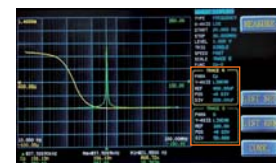
### High Frequency LCR Meter

- Wide Test Frequency 10Hz ~ 30MHz/20MHz/10MHz/5MHz
- 7" LCD color Display
- 0.08% Basic Accuracy
- Displaying Four Measurement Results Simultaneously From 17 Selectable Measurement Parameters Freely
- 15 Steps List Measurement
- Two Curves Sweep Mode
- Internal DC Bias Voltage  $\pm 12V$
- USB Storage Available
- ALC Function Available
- Standard Interfaces : RS-232C, USB Host/Device, LAN, GPIB and Handler
- Universal Power Input



#### Diverse Meas. Item & Display

Four Displayed items can be selected from 17 measurement parameters freely



#### Two Curves Graphic

7" color display, under graphic mode is capable to display two parameters sweep curve

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| SPECIFICATIONS                 |  |   |   |  |
|--------------------------------|--|---|---|--|
|                                | LCR-8230   | LCR-8220                                      | LCR-8210                                      | LCR-8205                                     |
| <b>TEST FREQUENCY</b>          |  |   |   |  |
|                                | DC, 10Hz ~ 30MHz;<br>6 Digits, $\pm 0.0007\%$  | DC, 10Hz ~ 20MHz;<br>6 Digits, $\pm 0.0007\%$ | DC, 10Hz ~ 10MHz;<br>6 Digits, $\pm 0.0007\%$ | DC, 10Hz ~ 5MHz;<br>6 Digits, $\pm 0.0007\%$ |
| <b>OUTPUT IMPEDANCE</b>        |  |   |   |  |
|                                | 25 $\Omega$ / 100 $\Omega$ SELECTABLE  |   |   |  |
| <b>BASIC ACCURACY</b>          |  |   |   |  |
|                                | $\pm 0.08\%$   |   |   |  |
| <b>TEST SPEED</b>              |  |   |   |  |
|                                | MAX: 2.5ms(>10kHz), FAST: 50ms(>20Hz), MEDIUM: 100ms<br>SLOW: 300ms, SLOW2: 600ms  |   |   |  |
| <b>TEST SIGNAL LEVEL</b>       |  |   |   |  |
| AC Voltage                     | 10mV ~ 2Vrms (FREQ. $\leq 1$ MHz), 10mV ~ 1Vrms (FREQ. > 1MHz or FREQ. $\leq 1$ MHz and RO=25 $\Omega$ )   |   |   |  |
| AC Current                     | 100 $\mu$ A ~ 20mA (RO=100 $\Omega$ ), 400 $\mu$ A ~ 40mA (RO=25 $\Omega$ )  |   |   |  |
| DCR Voltage                    | 1Vdc (40mA max.)   |   |   |  |
| <b>MEASUREMENT PARAMETERS</b>  |  |   |   |  |
|                                | Maximum four parameters can be measured and displayed at the same time<br>Impedance (Z), Inductance (Ls / Lp), Capacitance (Cs / Cp), AC Resistance (Rs / Rp), Quality Factor (Q),<br>Dissipation Factor (D), Admittance (Y), Conductance (G), Reactance (X), Phase Angle ( $\theta d / \theta r$ ),<br>Susceptance (B), DC Resistance (Rdc) |   |   |  |
| <b>LIST MEASUREMENT</b>        |  |   |   |  |
| Listed Steps                   | 15   |   |   |  |
| Listed Parameters              | Freq/Vac/Iac/DC Bias/Comp/BIN  |   |   |  |
| Trigger                        | AUTO, REPEAT, SINGLE   |   |   |  |
| <b>SWEEP MEASUREMENT</b>       |  |   |   |  |
| Swept Graphical                | Two of measurement parameters  |   |   |  |
| Swept Parameters               | Freq/Vac/Iac, Keep Trace   |   |   |  |
| <b>OTHER FUNCTIONS</b>         |  |   |   |  |
| Auto Level Control (ALC)       | Standard   |   |   |  |
| DC Bias                        | 0 ~ $\pm 12$ V   |   |   |  |
| Handler                        | PASS, FAIL and OK, NG or BIN 1-9   |   |   |  |
| <b>OTHER FEATURES</b>          |  |   |   |  |
| Correction                     | Open/Short/HF Load/Load  |   |   |  |
| V/I Monitor                    | Vac, Iac, Vdc, Idc   |   |   |  |
| Comparator                     | Value, $\Delta$ , $\Delta\%$   |   |   |  |
| Buzzer                         | OFF, Pass, Fail  |   |   |  |
| Average                        | 1 to 64  |   |   |  |
| <b>DISPLAY</b>                 |  |   |   |  |
|                                | 7" LCD color display (800 x 480)   |   |   |  |
| <b>INTERFACE</b>               |  |   |   |  |
|                                | USB/GPIB/LAN/RS-232/Handler/USB Host/TRIGGER Input   |   |   |  |
| <b>POWER SOURCE</b>            |  |   |   |  |
|                                | AC 100V~240V, 50/60Hz; Consumption: 65VA (max.)  |   |   |  |
| <b>DIMENSIONS &amp; WEIGHT</b> |  |   |   |  |
|                                | 346 (W) x 145 (H) x 335 (D) mm; Approx. 3.3kg  |   |   |  |

Specifications subject to change without notice. LCR-8000CD1DH

| ORDERING INFORMATION  |   |
|---|---|
| LCR-8230  | DC, 10Hz~30MHz High Frequency LCR Meter |
| LCR-8220  | DC, 10Hz~20MHz High Frequency LCR Meter |
| LCR-8210  | DC, 10Hz~10MHz High Frequency LCR Meter |
| LCR-8205  | DC, 10Hz~5MHz High Frequency LCR Meter  |
| ACCESSORIES   |   |
| User Manual (CD) x 1, AC Power Cord x 1, Test Fixture LCR-06B x 1, Safety Sheet x 1 |   |

| OPTION ASSESSORIES |                    |                     |                              |
|--------------------|--------------------|---------------------|------------------------------|
| LCR-05             | Test Fixture(DIP)  | GTL-232             | RS232C Cable                 |
| LCR-07             | Test Fixture(Clip) | GTL-246             | USB Cable                    |
| LCR-08             | Test Fixture(SMD)  | GTL-248             | GPIB Cable                   |
| LCR-12             | Test Fixture(Clip) | DC Bias Voltage Box | External DC Bias Voltage Box |
| LCR-15             | Test Fixture(SMD)  |                     |                              |
| FREE DOWNLOAD      |                    |                     |                              |
| PC Software        | LCR Meter          |                     |                              |

Global Headquarters  
**GOOD WILL INSTRUMENT CO., LTD.**  
 No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan  
 T +886-2-2268-0389 F +886-2-2268-0639  
 E-mail: marketing@goodwill.com.tw

China Subsidiary  
**GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.**  
 No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China  
 T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary  
**GOOD WILL INSTRUMENT (SEA) SDN. BHD.**  
 No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3,  
 11950 Bayan Baru, Penang, Malaysia  
 T +604-6111122 F +604-6115225

Europe Subsidiary  
**GOOD WILL INSTRUMENT EURO B.V.**  
 De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS  
 T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary  
**INSTEK AMERICA CORP.**  
 5198 Brooks Street Montclair, CA 91763, U.S.A.  
 T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary  
**TEXIO TECHNOLOGY CORPORATION.**  
 7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin  
 Yokohama, Kohoku-ku, Yokohama, Kanagawa,  
 222-0033 Japan  
 T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary  
**GOOD WILL INSTRUMENT KOREA CO., LTD.**  
 Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga,  
 Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu,  
 Seoul 150093, Korea.  
 T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary  
**GW INSTEK INDIA LLP.**  
 No.2707/B&C, 1<sup>st</sup> Floor UNNATHI Building,  
 E-Block, Sahakara Nagar, Bengaluru-560 092, India  
 T +91-80-6811-0600 F +91-80-6811-0626

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