

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

Specifications subject to change without notice. LCR-8000CD1BH

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

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LCR-8200 Series

High Frequency LCR Meter

FEATURES

- 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 ±12V
- USB Storage Available
- ALC Function Available
- Standard Interfaces : RS-232C, USB Host/Device, LAN, GPIB and Handler
- Universal Power Input

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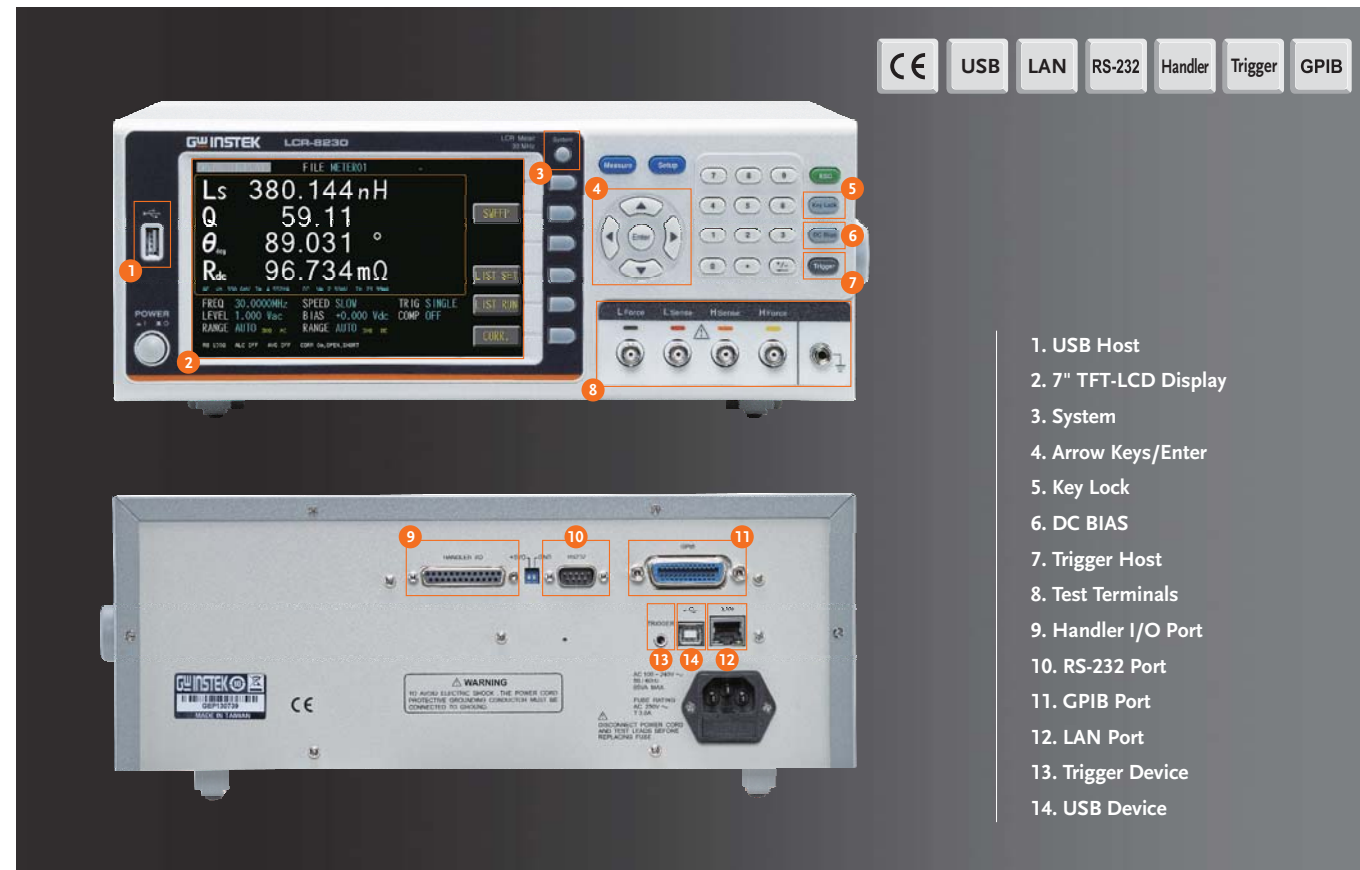
GW Instek launches a new series of high-frequency LCR tester ~ LCR-8200, which has four models and the maximum test frequency is up to 30MHz. The entire series adopts 7-inch color display and features a high measurement accuracy (0.08%). The measurement results can be presented numerically or graphically according to the selected measurement mode, allowing users to optimally interpret the characteristics of the DUT. At the same time, a full range of standard interfaces such as USB device / RS-232C / Handler and GPIB allow users to control the instrument by the most familiar interface without worrying about additional hardware investment costs. Furthermore, the series also provides USB storage function when operating in the graphics mode. The measured characteristic curves and values of the DUT are saved for subsequent analysis. The wide variety of features of the LCR-8200 can help users easily respond to the test requirements of passive components in R&D, engineering, and production.

Under the numerical measurement mode, it is divided into MEAS measurement and LIST measurement. Under the MEAS measurement mode, users can select up to 4 (at least 1) desired measurement items from the 17 measurement parameters. Each selected measurement item can be set to compare (PASS/FAIL judgement) or to the BIN function to conduct judgement and sorting, so that users can easily learn the results of the measurement by color and sound. Under the LIST mode, users is allowed to set 15 test points and each test point can set parameters independently, including frequency/voltage/bias, and it even can set independent comparison function and numerical display mode (value, difference value, difference percentage). On top of that, under the LIST mode, the automatic trigger mode is also provided. After each LIST measurement is completed, the instrument will be in the mechanism of standby trigger. Users only need to place the next DUT, and the LIST test can be automatically performed that saves time of repeatedly pressing the trigger button.

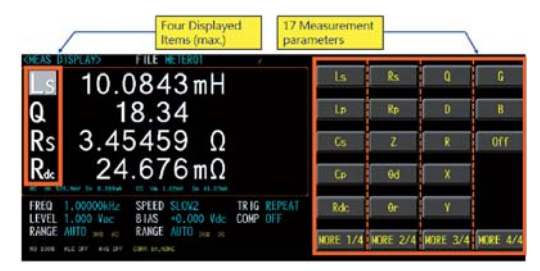
Under the graphical measurement mode, the SWEEP measurement provides the ability to sweep two parameters simultaneously (TRACE A / TRACE B). The relative parameters of the sweep, including the sweep source (frequency, voltage or current), horizontal / vertical axis scale (LINEAR / LOG), speed...etc., even adding a bias, can be set and tested according to the actual needs of users. After the sweep is completed, the scale can be automatically adjusted according to the selected TRACE, so that the whole observation is clearer and easier to read. Other than that, the swept graphics (bmp) and values (csv) can be saved to the flash drive for subsequent analysis and applications.

Whether it is for measurement data collection during the test process or the collocation for the system integration, the LCR-8200 series offers the most comprehensive communications interfaces, including USB device, RS-232C, LAN for PC connection and even GPIB, which are all standard communications interfaces. Users can choose according to the habits of use and the convenience of the system architecture without any additional cost. In addition, the LCR-8200 series also provides a Handler interface for system integration of PLCs or sorters.

PANEL INTRODUCTION



A. The Presentation of Flexible Measurement Combinations



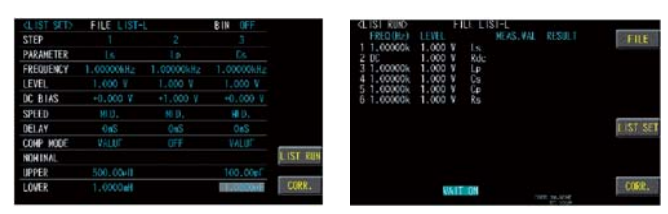
LCR-8200 allows users to select and arrange measurement parameters. Users can select at least one parameter to maximum four parameters from the 17 measurement parameters according to the measurement requirements and the presentation order can also be arranged in a desired manner. The set parameters can be stored in internal/external memory groups for subsequent recalls.

B. Independent Setting Judgment



Each selected test parameter can independently set judgement and comparison such as value, difference value or difference percentage. Additionally, the display method can also be based on value, difference value or difference percentage to self-define the presentation of test results, and the observation is more in line with the actual needs. In addition to using the warning sound, all the parameters set for comparison judgment will be displayed in different colors. "Red" means that the limit value is exceeded, and "Green" means that it is within the limit value, so that the judgment can be conducted smoothly under noisy environment.

C. List Measurement



The 15-point LIST measurement mode provides measurement values at a specific frequency or voltage of the DUT, and each set point can set independent comparison and judgement. When the trigger mode is set to "AUTO", the display "WAIT ON" will appear on the measurement screen and LCR-8200 will detect the contact status of the fixture. When the DUT is connected, the test will start automatically.

D. Hyperbolic Sweep



Up to 2 characteristic parameters of the DUT can be swept at the same time. Sweep type (frequency/Vac/Iac), axis form (LOG/LINEAR), sweep speed, even adding bias (internal), etc can be set according to the actual demands. After the sweep is completed, automatic adjustment can be used to obtain the best observation display. The movable cursor can be used to obtain the measurement result of the specific position. Swept displays and point values can be saved to the flash drive via the USB host on the panel for subsequent analysis.

E. Bin Function



BIN settings for one specific parameter of the selected measurement parameters provide up to 9 BIN positions. Set the judgment basis for individual classifications according to the desired BIN methods (EQUAL/SEQUENTIAL/TOLERANCE/RANDOM) and limit value mode (VALUE/delta/delta%). The result of this sorting can be obtained through the Handler interface. If directly connected to an external device such as a sorter, an immediate sorting can be performed.

F. Complete Standard Interfaces



Provides a variety of standard PC connection interfaces such as RS-232C, USB device, LAN, and GPIB industrial control interface to remotely control settings or read measurement results and other related information so as to substantially increase work efficiency without having to pay for additional interface procurement costs. In addition, LCR-8200 also provides Handler interface for PLC external control or for the collocation of measurement integration of sorters.