



JK2830 is a new generation of low cost, high-performance and compact LCR digital bridge. Using the latest technology and high density circuit design, it concentrates the essence of the large LCR tester, compact and compact. Abolish the traditional mechanical power switch and use software to control the power switch. 0.05% basic accuracy and good test stability can be comparable to high-end models. Equipped with 4.3 inch LCD display and new upgraded interface system. Beautiful and easy to operate. The instrument provides a rich interface and is compatible with the standard SCPI instruction. It can easily form various testing systems to meet the needs of inspection, production and scientific research.

#### Performance characteristics

- Low cost, high performance, small volume LCR tester    ■ 4.3 inch TFT LCD display    ■ Soft power switch
- Optional operating interface in English and Chinese    ■ Maximum 200kHz test frequency    ■ 6 bit readings resolution
- 10mVrms-2.0Vrms Programmable test level. Built-in 0- + 5V/50mA bias source    ■ Maximum test speed 13ms/ times
- DCR Test function, 50mV-2V, Programmable test level, resolution 10mΩ    ■ Ls-Rd/Lp-Rd function (L, Rd is displayed simultaneously)
- 30Ω、100Ω signal source impedance    ■ Voltage and current monitoring and automatic level adjustment function
- Built-in comparator, 10 gear sorting and counting function    ■ It supports U disk file storage and can be upgraded by U disk.
- RS232, RS485, USB, HANDLER, GPIB interface

### Technical parameter

Model		JK2830	JK2831	JK2832
Display		4.3 TFT LCD display 480*272		
Basic measurement readiness	LCRZ	0.05%	0.05%	0.05%
	DCR	0.10%		
Test signal frequency		50Hz-100kHz, 0.01Hz step	50Hz-200kHz, 37 points	20Hz-200kHz, 0.01Hz step
Signal source output impedance		30Ω、100Ω		
AC Test signal level		10mV-2Vrms		
RDC Test signal level		1V DC	1V DC	5mV-2V DC
DC Bias voltage source		0mA--±5V/0mA -- ±50mA		
LCR Meter Test parameters	Basic	L、C、R、 Z 、D、Q、 Y 、G、X、 $\theta_d$ 、 $\theta_r$ 、RDC、Vm、Im、 $\Delta\%$		
	Transformer	DCR1 (primary, 2-terminal), DCR2 (secondary, 2-terminal), M (mutual inductance) N, 1/N, phase (phase), Lk (leakage inductance), C (primary and secondary capacitance)		
Measurement speed (ms/ times)		High: 12.5ms, medium speed: (83ms) slow: (167ms)		
equivalent circuit		Series, parallel		
Range mode		Auto, keep		
Trigger mode		Internal, manual, external, bus		
Average number of times		1-255		
Clear function		Open circuit, short circuit, load		
Mathematical operation		Direct reading, $\Delta$ ABS, $\Delta\%$		
Trigger delay setting		0--60.000s, 1ms step		
Step delay setting		0--60.000s, 1ms step		
List scan		201 point, Scanning parameters: Test frequency, AC voltage, AC current, DC BIAS voltage, DC BIAS current		
Graphic scanning analysis		no		
Unique function		L-RDC At the same time test, soft power switch, one button screen function, data recording function.		
Comparator function		10 gear sorting, BIN1~BIN9, NG, AUX		
		gear counting function		
		PASS, FALL Front panel LED display		
Internal nonvolatile memory		100 sets of LCRZ instrument set file, 201 test results		
External USB memory		Instrument settings files, CSV data files, screenshots (GIF images)		
Interface		HANDLER (control interface), USB HOST, RS232C, RS485 (optional), GPIB (optional)		
Size / weight		Upper frame size: 215mm (W) * 88mm (H) * 336mm (D)		
		Shape size: 236mm (W) * 105mm (H) * 363mm (D)		
		Weight: 3.9kg		