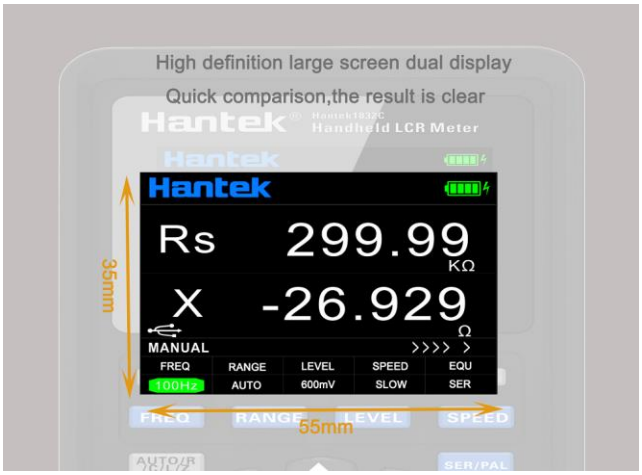
Hantek1832C/Hantek1833C

Hantek1832C/Hantek1833C handheld LCR Meter is a portable handheld measuring instrument to measure the parameters of the component such as inductance, capacitance, resistance and so on. small volume, powered by 5V lithium battery, it can meet the requirements of desktop LCR application, and can also be applied to flow measurement and handheld measurement.

- 100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz, 50kHz, 75kHz, 100kHz 10 typical test frequency (Hantek1832C) 7 typical test frequency
- 2.8 inch TFT LCD, Switch between Chinese and English
- HD display, dual display of measurement data, the result is clear
- Support data record analysis
- Support PC upper computer, easy to control and measure remotely
- Test lead: 3 terminal/5 terminal switch
- Measuring speed: high speed/intermediate speed/low speed switch
- Range: support manual/auto switch, easy to do quick measurement
- LCR adopted rechargeable design, Large capacity lithium battery, super standby
- Double shock protection sleeve, all-round protection, shakeproof, fall-arrest, protect
- the machine from damage, longer use time, more comfortable measurement
- Bracket design, easy to put and measure

LCR high precision test instrument:



Specification：

Model	Hantek1832C	Hantek1833C
Test frequency	100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz	100Hz, 120Hz, 400Hz, 1kHz, 4kHz, 10kHz, 40kHz, 50kHz, 75kHz, 100kHz
Accuracy	0.30%	
Equivalent Circuit	series, parallel	
Test level	0.6Vrms	0.6Vrms, 0.3Vrms
Measurement way	manual, auto	
Display screen	2.8 inch TFT LCD	
Measurement parameters	principle parameter: L/C/R/Z deputy parameter: X/D/Q/θ/ESR	
Principle parameter	L/C/R/Z	
Deputy parameter	X/D/Q/θ/ESR	
Inductance Measurement range	(L) 0-2000H	
Capacitance Measurement range	(C) 0-20mF	
Resistance Measurement range	(R) 0-20MΩ	
Measurement speed	high speed(4 times/s), intermediate speed(twice/s), low speed(once/s)	
Reset function	open circuit calibration, short-circuit calibration	
Test terminal configuration	3 termianl, 5 terminal	
General feature	standard with 1.Type-C data cable; 2.power adapte; 3.short circuit card; 4.red and black rubber plug; 5.large capacity lithium battery	
Capacitance C and dissipationD		
100Hz/120Hz		

Range	Display range	Accuracy Ce	Accuracy De	Recommended equivalent mode
20mF	4.000mF~20.000mF	8.00%+5 digits	0.08	series
4mF	400.0μF~3.9999mF	2.00%+3 digits	0.02	series
400μF	40.00μF~399.99μF	0.60%+2 digits	0.006	series
40μF	4.000μF~39.999μF	0.40%+2 digits	0.004	series
4μF	400.0nF~3.9999μF	0.40%+2 digits	0.004	----
400nF	40.00nF~399.99nF	0.4%+2 digits	0.004	parallel
40nF	4.000nF~39.999nF	0.5%+3 digits	0.005	parallel
4nF	0pF~3.999nF	1.5%+5 digits	------	parallel
1KHz				
Range	Display range	Accuracy Ce	Accuracy De	Recommended equivalent mode
1000uF	400.0uF~999.9uF	3.00%+5 digits	0.03	series
400μF	40.00μF~399.99μF	1.50%+3 digits	0.015	series
40μF	4.000μF~39.999μF	0.60%+2 digits	0.006	series
4μF	400.0nF~3.9999μF	0.40%+2 digits	0.004	----
400nF	40.00nF~399.99nF	0.4%+2 digits	0.004	parallel
40nF	4.000nF~39.999nF	0.6%+3 digits	0.006	parallel
4nF	400.0pF~3.9999nF	0.6%+3 digits	0.006	parallel
400pF	0.0pF~399.9pF	3%+5 digits	------	parallel
10KHz				
Range	Display range	Accuracy Ce	Accuracy De	Recommended equivalent mode
100μF	40.00μF~100.00μF	4.00%+5 digits	0.04	series
40μF	4.000μF~39.999μF	2.0%+3 digits	0.02	series
4μF	400.0nF~3.9999μF	0.60%+2 digits	0.006	series
400nF	40.00nF~399.99nF	0.4%+2 digits	0.004	series
40nF	4.000nF~39.999nF	0.4%+2 digits	0.004	------
4nF	400.0pF~3.9999nF	0.4%+2 digits	0.004	parallel
400pF	40.00pF~399.99pF	0.6%+3 digits	0.006	parallel
40pF	0.00pF~39.99pF	2.5%+5 digits	------	parallel
40KHz				
Range	Display range	Accuracy Ce	Accuracy De	Recommended equivalent mode
100μF	40.00μF~100.00μF	6.00%+5 digits	0.06	series
40μF	4.000μF~39.999μF	4.0%+3 digits	0.04	series
4μF	400.0nF~3.9999μF	1.0%+2 digits	0.01	series
400nF	40.00nF~399.99nF	0.6%+2 digits	0.006	series
40nF	4.000nF~39.999nF	0.6%+2 digits	0.006	------
4nF	400.0pF~3.9999nF	0.6%+2 digits	0.006	parallel
400pF	40.00pF~399.99pF	1%+3 digits	0.01	parallel
40pF	0.000pF~39.999pF	3%+5 digits	------	parallel
100KHz				
Range	Display range	Accuracy Ce	Accuracy De	Recommended equivalent mode
10μF	4.000μF~10.000μF	8.0%+20 digits	0.08	series
4μF	400.0nF~3.9999μF	5.0%+10 digits	0.05	series
400nF	40.00nF~399.99nF	1.5%+5 digits	0.015	series
40nF	4.000nF~39.999nF	1%+2 digits	0.01	series
4nF	400.0pF~3.999nF	1%+2 digits	0.01	------

400pF	40.00pF~399.99pF	1.5%+2 digits	0.015	parallel
40pF	4.000pF~39.999pF	2%+5 digits	0.02	parallel
4pF	0.000pF~3.999pF	5%+10 digits	------	parallel
Inductance L and quality factor				
100Hz/120Hz				
Range	Display range	Accuracy Le	Accuracy De*	Recommended equivalent mode
1000H	400.0H~999.9H	2.00%+3 digits	0.02	parallel
400H	40.000H~399.99H	0.60%+2 digits	0.006	parallel
40H	4.000H~39.999H	0.40%+2 digits	0.004	parallel
4H	400.0mH~3.9999H	0.40%+2 digits	0.004	----
400mH	40.00mH~399.99mH	0.4%+2 digits	0.004	series
40mH	4.000mH~39.999mH	0.6%+3 digits	0.006	series
4mH	0uH~3.999mH	3.0%+5 digits	------	series
1kHz				
Range	Display range	Accuracy Le	Accuracy De*	Recommended equivalent mode
1H	400.0mH~999.9mH	1.50%+3 digits	0.015	parallel
400mH	40.00mH~399.99mH	0.4%+2 digits	0.004	parallel
40mH	4.000mH~39.999mH	0.4%+2 digits	0.004	------
4mH	400.0uH~3.9999mH	0.4%+2 digits	0.004	series
400uH	40.00uH~399.99uH	0.8%+3 digits	0.008	series
40uH	0.00uH~39.99uH	3.0%+5 digits	------	series
10kHz				
Range	Display range	Accuracy Le	Accuracy De*	Recommended equivalent mode
100H	40.00H~100.00H	2.0%+3 digits	0.02	parallel
40H	4.000H~39.999H	0.60%+2 digits	0.006	parallel
4H	400.0mH~3.9999H	0.40%+2 digits	0.004	parallel
400mH	40.00mH~399.99mH	0.4%+2 digits	0.004	------
40mH	4.000mH~39.999mH	0.4%+2 digits	0.004	series
4mH	400.0uH~3.9999mH	1%+3 digits	0.01	series
400uH	0.0uH~399.9uH	3.0%+5 digits	------	series
40kHz				
Range	Display range	Accuracy Le	Accuracy De*	Recommended equivalent mode
1H	400.0mH~999.9mH	2.0%+4 digits	0.02	parallel
400mH	40.00mH~399.99mH	0.8%+2 digits	0.008	parallel
40mH	4.000mH~39.999mH	0.8%+2 digits	0.008	------
4mH	400.0uH~3.9999mH	0.8%+2 digits	0.008	series
400uH	40.00uH~399.99uH	1.5%+3 digits	0.015	series
40uH	0.000uH~39.999uH	4.0%+5 digits	------	series
100kHz				
Range	Display range	Accuracy Le	Accuracy De	Recommended equivalent mode
100mH	40.00mH~399.99mH	2.5%+2 digits	0.025	parallel
40mH	4.000mH~39.999mH	1.5%+2 digits	0.015	parallel
4mH	400.0uH~3.9999mH	1.0%+2 digits	0.01	------

400uH	40.00uH~399.99uH	1.0%+2 digits	0.01	series
40uH	4.000uH~39.999uH	1.5%+5 digits	0.015	series
4uH	0.000uH~3.999uH	4%+10 digits	------	series
Impedance Z and phase angle				
100Hz, 120Hz, 1kHz, 10kHz				
Range	Display range	Accuracy Ze	Accuracy	Recommended equivalent mode
20MΩ	4.000MΩ~20.000MΩ	3.0%+10 digits	3.4°	parallel
4MΩ	400.0kΩ~3.9999MΩ	1.2%+3 digits	0.7°	parallel
400kΩ	40.00kΩ~399.99kΩ	0.3%+3 digits	0.2°	parallel
40kΩ	4.000kΩ~39.999kΩ	0.25%+2 digits	0.1°	------
4kΩ	400.0Ω~3.9999kΩ	0.25%+2 digits	0.1°	series
400Ω	40.00Ω~399.99Ω	0.25%+2 digits	0.1°	series
40Ω	4.000Ω~39.999Ω	0.5%+3 digits	0.3°	series
4Ω	0.4000Ω~3.9999Ω	2.0%+3 digits	1.1°	series
0.4Ω	0.0000Ω~0.3999Ω	4.0%+3 digits	------	series
40kHz				
Range	Display range	Accuracy Ze	Accuracy	Recommended equivalent mode
20MΩ	4.000MΩ~20.000MΩ	7.0%+41 digits	4.0°	parallel
4MΩ	400.0kΩ~3.9999MΩ	2.5%+3 digits	1.4°	parallel
400kΩ	40.00kΩ~399.99kΩ	1.0%+4 digits	0.6°	parallel
40kΩ	4.000kΩ~39.999kΩ	1.0%+4 digits	0.6°	------
4kΩ	400.0Ω~3.9999kΩ	0.5%+3 digits	0.3°	series
400Ω	40.00Ω~399.99Ω	0.5%+3 digits	0.3°	series
40Ω	4.000Ω~39.999Ω	0.7%+4 digits	0.4°	series
4Ω	0.4000Ω~3.9999Ω	2.0%+6 digits	1.1°	series
0.4Ω	0.0000Ω~0.3999Ω	5.0%+10 digits	------	series
100kHz				
Range	Display range	Accuracy Ze	Accuracy	Recommended equivalent mode
20MΩ	4.000MΩ~20.000MΩ	9.0%+20 digits	5.2°	parallel
4MΩ	400.0kΩ~3.9999MΩ	4.0%+10 digits	2.3°	parallel
400kΩ	40.00kΩ~399.99kΩ	1.5%+4 digits	0.9°	parallel
40kΩ	4.000kΩ~39.999kΩ	1.0%+2 digits	0.6°	parallel
4kΩ	400.0Ω~3.9999kΩ	0.7%+2 digits	0.4°	------
400Ω	40.00Ω~399.99Ω	0.7%+2 digits	0.4°	series
40Ω	4.000Ω~39.999Ω	1.0%+5 digits	0.6°	series
4Ω	0.4000Ω~3.9999Ω	3.0%+10 digits	1.7°	series
0.4Ω	0.0000Ω~0.3999Ω	7%+20 digits	------	series