ET430B / ET430 / ET431 / ET432 / ET433

ET430 Series Handheld LCR Meter



OVERVIEW

The ET430 series handheld LCR meter combines a 2.8-inch TFT display, flexible key operation and full-speed USB communication in one compact unit, powered by a large-capacity lithium battery for long working hours. Beyond a full set of measurement parameters, it offers deviation measurement and sorting, with continuously adjustable output frequency; basic accuracy is 0.2 % or 0.3 % depending on model.

FEATURES

- Measurement frequency up to 100 kHz, continuously adjustable in 1 Hz steps
- Basic accuracy 0.2 % (ET431 / ET432 / ET433) or 0.3 % (ET430B / ET430)
- Open-circuit and short-circuit calibration
- DC resistance (DCR) measurement (ET431 and above)
- Electrolytic capacitor measurement mode (ET430 and above)
- Internal bias voltage output 0 – 1000 mV
- Automatic component identification and measurement once the component is connected
- Sorting and deviation measurement supported
- 2.8-inch TFT display, 4½-digit display
- USB Type-C communication interface, SCPI protocol supported
- Large-capacity lithium battery power supply
- Adjustable measurement speed; manual and automatic range
- System settings: Chinese or English language, buzzer and screen brightness configurable

SPECIFICATIONS

Item	ET430B	ET430	ET431	ET432	ET433
Frequency range (max)	10 kHz	100 kHz	10 kHz	100 kHz	10 Hz – 100 kHz
Test frequency points	4 fixed points (100 Hz, 120	6 fixed points (100 Hz, 120 Hz,	4 fixed points (100 Hz, 120	6 fixed points (100 Hz, 120 Hz,	

Item	ET430B	ET430	ET431	ET432	ET433
	Hz, 1 kHz, 10 kHz)	1 kHz, 10 kHz, 40 kHz, 100 kHz)	Hz, 1 kHz, 10 kHz)	1 kHz, 10 kHz, 40 kHz, 100 kHz)	User-defined, continuously adjustable in 1 Hz steps
Basic accuracy	0.3 %	0.3 %	0.2 %	0.2 %	0.2 %
Display	2.8-inch TFT LCD				
Display digits	Main parameter 5 digits · secondary parameter 5 digits				
Measurement parameters	Main: L / C / R / Z · secondary: X / D / Q / θ / ESR				
Electrolytic capacitor mode	No	Yes	Yes	Yes	Yes
DCR mode	No	No	Yes	Yes	Yes
Measurement display range	L: 0 µH – 2000 H · C: 0 pF – 20.000 mF · R: 0 Ω – 20.000 MΩ				
Measurement display speed	Slow, medium, fast				
Internal bias	None	0.1 V, 0.3 V, 0.6 V	0 mV – 1000 mV adjustable, 1 mV steps		
Test level	0.6 V, 1 V	0.3 V, 0.6 V, 1 V	0.1 V, 0.3 V, 0.6 V, 1 V		10 mV – 1100 mV, adjustable in 1 mV steps
Calibration	Open-circuit calibration, short-circuit calibration				
Screening function	Limit range settable 1 % – 50 %, fixed points at 1 %, 5 %, 10 %, 20 %				
Deviation measurement	Percentage deviation between the measured component and the set nominal value is calculated and displayed				
Other	Adjustable backlight brightness, settable auto power-off time, Chinese / English selectable				USB Type-C communication, built-in large-capacity lithium battery

ACCESSORIES

- **Standard (ET430B / ET430 / ET431 / ET432):** USB Type-C charging / data cable, charging adapter, gold-plated shorting plate, red/black alligator-clip test leads, built-in large-capacity lithium battery
- **Standard (ET433):** Kelvin test fixture
- **Optional (ET430B / ET430 / ET431 / ET432):** Kelvin test fixture, SMD chip test tweezers
- **Optional (ET433):** SMD chip test tweezers