

Model

AX-127B CE

High Speed·High Accuracy 100kHz  
Digital ESR/Z Checker

Most Suitable Model to inspect and measure ESR/Z of Low Impedance-Capacitor



- Measurement of low-equivalent series resistance and low-impedance on 100kHz at high-stability·high-accuracy·high-speed.
- Low-ESR/Low-impedance measuring range: 100mΩ ~ 100Ω range.
- Resolution: 10 μΩ (ESR)
- Available to make the Contact·Check to watch the contact condition of Probe. Contact.
- 4 digit display and LO/GO/HI/ Contact·Error Output.
- By RS-232C or GP-IB, all functions can be controlled externally (Option)
- Printer output (Option)

## Specifications

Measuring range and Accuracy (at 23°C ± 5°C) [When the standard setting]

Test Current	Measuring range	Resolution	Measuring current	ESR Accuracy	Z Accuracy
100mΩ	0.00mΩ ~ 109.99mΩ	0.01mΩ	100mA	within ±0.5% of rdg ± 10digit ± 100 μΩ	within ±1% of rdg ± 10digit ± 100 μΩ
1Ω	0.0mΩ ~ 1099.9mΩ	0.1mΩ	10mA	within ±0.5% of rdg ± 10digit	within ±1% of rdg ± 10digit
10Ω	0.000Ω ~ 10.999Ω	1mΩ	1mA		
100Ω	0.00Ω ~ 109.99Ω	10mΩ	0.1mA		

\*The above accuracy is the value was made zero adjustment exactly after 30 minutes of warming-up.

Measuring method	5-terminal measuring [available to contact check]
Measuring frequency	100kHz ± 0.1%, SINE wave
Measuring time	[Free running] FAST: 10 times/sec. approx. SLOW: 2.5 times/sec. [When the standard setting]
	[Remote start] [ESR] about (4.2 + N) × 2ms [N = FAST: 1 ~ 99] / SLOW: [4 + power line cycle × 1 ~ 9] × 2ms (please plus 1ms., in case of making the Contact-check)
	[Remote start mode] [Z] about (3.5 + N) × 3ms [N = FAST: 1 ~ 99] / SLOW: [3.5 + power line cycle × 1 ~ 9] × 3ms (please plus 1ms., in case of making the Contact-check)
Comparator set range	9999 both for HI and LO
Operation condition	[Temp.] 5°C ~ +40°C [Humidity] less than 85%
Power supply	AC100V ~ 240V selectable, 50/60Hz, about 30VA
Outer dimension	about 333 (W) × 99 (H) × 300 (D) mm (excluding protruding parts such as rubber legs, etc.)
Weight	about 4kg

Option

• GP-IB Interface • RS-232C Interface

• Printer output (8 bit parallel Centronics)

• printer cable

\*Either one interface can built-in the option above.