

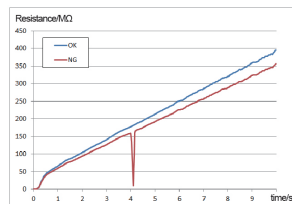
Insulation Resistance Tester ANBTS7101(F) Series



Product Overview

For the ANBTS7101(F) Series Insulation Resistance Tester, addressing the weaknesses of conventional CV mode insulation resistance testers in the testing process of electrical products with relatively large static capacitance, such as lithium battery cells, including long ramp-up time, slow discharge process, large insulation resistance value fluctuations, and poor repeatability, the ANBTS7101(F) Series Tester uses an innovative mode of CC charging, CV pressure holding, and CC discharging to realize fast, accurate, and safe testing of insulation resistance for electrical products with large capacitance characteristics.

The ANBTS7101(F) Series Tester is suitable for insulation resistance testing of electrical products with relatively large static capacitance, such as power batteries, energy storage batteries, 3C batteries, super capacitors, aluminum electrolytic capacitors etc.



Features

- Wide range:** Voltage 25V-2,000V and resistance 2kΩ-100GΩ, allowing for accurate testing of a wide voltage range and high insulation resistance values
- Fast:** 50mA quick CC charging, CV pressure holding test and 30mA quick CC discharge mode, capable of conducting quick insulation test of super capacitor up to 500uF
- High accuracy:** Support the double judgment of the resulting values and the process values, the automatic upload of the process data
- Easy to use:** Small in size, with rich interfaces and simple operation, particularly convenient for automated production lines and system integration use

Specifications

Model	ANBTS7101(F)	ANBTS7101-3(F)
Output channel	Single channel (HV1, HV2 (return))	Three channels (HV1/HV2/HV3, configurable as H/L/X)
Output voltage	Range: (25-1,000)VDC, resolution: 1V, Error $\pm(1\% \times \text{Set value} + 2V)$; [optional 2000V output]	
Insulation resistance measurement	25V-100V: 0.002MΩ-99.99MΩ, $\pm(5\% \times \text{Reading value} \pm 2 \text{ digits})$; 101V-499V: 0.010MΩ-199.9MΩ, $\pm(2\% \times \text{Reading value} \pm 2 \text{ digits})$; 200.0MΩ-2.000GΩ: $\pm(5\% \times \text{Reading value} \pm 2 \text{ digits})$ 500V-1,000V: 0.020MΩ-999.9MΩ, $\pm(2\% \times \text{Reading value} \pm 2 \text{ digits})$; 1.000GΩ-9.999GΩ: $\pm(5\% \times \text{Reading value} \pm 2 \text{ digits})$ 10.00GΩ-49.99GΩ: $\pm(15\% \times \text{Reading value})$; 50.00GΩ-99.99GΩ: $\pm(20\% \times \text{Reading value})$	
Test time	Range: 0, (0.5-999.9)s, 0 represents infinite duration, resolution: 0.1s, accuracy: $\pm(0.1\% \times \text{Set value} + 2 \text{ digits})$	
Ramp up time	Range: 0, (0.1-999.9)s, 0 represents ramp-up disabled, resolution: 0.1s, accuracy: $\pm(0.1\% \times \text{Set value} + 2 \text{ digits})$	
Ramp down time	Range: 0, (1-999.9)s, 0 represents ramp-down disabled, resolution: 0.1s, accuracy: $\pm(0.1\% \times \text{Set value} + 2 \text{ digits})$	
Resistance upper/lower limit setting	Range: 0.002MΩ-99.99GΩ, 0 indicates no upper limit setting	
Charge and discharge modes	Maximum constant current charge 50mA, maximum constant current discharge 30mA and discharge residual voltage monitoring function.	
Power supply	AC220V $\pm 10\%$, 50Hz/60Hz	
Display and operate	5-inch LCD color display, key and touch screen operation; RS232C, LAN, PLC and USB (storage) interfaces	
Dimensions (W×H×D mm)	213×88×360	