

NXI-5102-1000 Programmable Resistance Module

Product Introduction

NXI-5102-1000 is a programmable resistance module for insulation resistance simulation in high voltage circuits, withstanding voltage up to 1,000 VDC, and setting range of 200 k $\Omega \sim 61 M\Omega$. NXI-5102-1000 is applicable to NXI chassis or independent use, widely used to insulation resistance simulation in a variety of test systems.

Application Fields



Insulation Resistance Simulation

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High Voltage Resistance Box Simulation



BMS Test System

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Other ATE Systems

Main Features

- Operating Voltage Range:0~1000VDC
- Insulation Resistance Range: 200kΩ~61mΩ
- Setting Resistance Resolution: 100Ω
- Resistance maximum power 3W
- Resistance Accuracy: 5%+Rr
- Single module with single slot, applicable to NXI-F1000 chassis use
- Support Modbus-RTU, SCPI protocols
- Support 12VDC power supply input, LAN/CAN communication for individual control



Model	NXI-5102-1000			
Operating Voltage	0~1000V DC			
Resistance Setting Voltage	200kΩ~61MΩ			
Setting Resolution	100Ω			
Resistance Accuracy	±5%+Rr			
Residual Resistance (Rr)	Typical Value: 3.6Ω			
Resistance Temperature Drift	200ppm			
Resistance Maximum Power ¹	3W			
Maximum Switching Current	10mA			
Switch Closure Time	<1.1ms			
Switch Release Time	<0.1ms			
Expected Switching Life Low Load Application	>1×10 ⁵			
Expected Switching Life Full Load Application	>1×10 ⁴			
Others				
Test Terminal	Banana Socket Connector			
Operating Power	12VDC±10%, <1A			
Communication Interface	LAN/CAN			
Temperature	Operating temperature: 0°C~40°C;Storage temperature: -20°C~60°C			
Operating Environment	Altitude: <2000m; Relative humidity: 5%~90%RH (no condensation); Operating air pressure: 80~110kPa			
Dimensions	130.5mm(H)*40mm(W)*230.5mm(D)(with puller)			

Note 1: In order to ensure the safe use of the equipment, please pay special attention to whether the input voltage exceeds the resistance power Rset = U2 /Pr when setting the resistance.

Note 2: For other specifications, please contact NGI.