

# 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 1,000V DC, and setting range of 200k $\Omega$  ~ 61M $\Omega$ . 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



High Voltage Resistance Box Simulation



BMS Test System



Other ATE Systems

### Main Features

- Operating Voltage Range: 0~1000V DC
- Insulation Resistance Range: 200k $\Omega$ ~61m $\Omega$
- Setting Resistance Resolution: 100 $\Omega$
- 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 communication for individual control

## Technical Data Sheet

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 <sup>1</sup>	3W
Maximum Switching Current	10mA
Switch Closure Time	<1.1ms
Switch Release Time	<0.1ms
Expected Switching Life Low Load Application	>1×10 <sup>5</sup>
Expected Switching Life Full Load Application	>1×10 <sup>4</sup>
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  $R_{set} = U^2 / P_r$  when setting the resistance.

Note 2: For other specifications, please contact NGI.