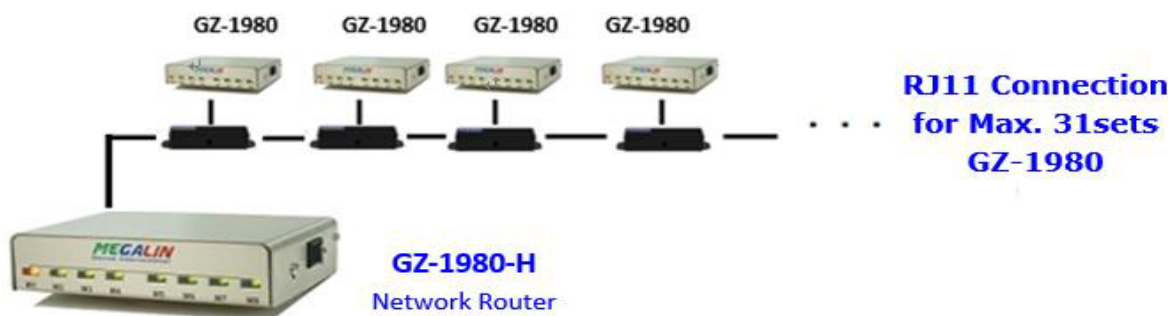




# GZ-1980-H Digital Equipment Ground Router



In a modern electronic facility, proper grounding is crucial for safe and uninterrupted operation of equipment. Especially when the control environments are critical, any broken or loose ground connections may result in personnel exposure to dangerous voltage, equipment malfunction, and damages to those ESD sensitive components.

The GZ-1980-H grounding monitor is a digital precision instrument designed to formulate a network and/or to monitor the grounding on industrial equipment with multiple grounding points. Up to eight low resistance grounds can be monitored by one GZ-1980-H. The high resistance limit can be set through software. The real-time status of each channel is displayed on the front panel using a bicolor LED.

With the built-in control and network circuitry within each GZ-1980-H, at most 31 GZ-1980 & GZ-1950 units can be easily inter-connected to become a network that can be controlled from a PC-based management program. All the alarm records with detailed data in the monitor network can be logged into a database.

Each GZ-1980 provides interface to external devices such as a siren or other controllers that may provide more delicate control based on the monitoring status.

### System Features:

- Built-in control and network circuitry
- Connect up to 31 GZ-1980's to form network
- Provide measured resistance value
- Continuously monitor 8 equipment grounds
- ANSI/ESD S20.20-2014 compliant
- Resistance high limit can be set by software
- Can be calibrated by software

### Electrical Specifications:

- Connect to PC thru standard LAN port
- Support PC central program VGround-see
- Ground resistance alarm limit:  $10\Omega \pm 10\%$  ( $1\Omega \sim 20\Omega$  selectable thru software VGround-see Setup)
- Ground sense current:  $0.2 \text{ mA} \pm 10\%$
- Power supply: 7-15V DC 150 mA, 2.1mm coax plug, center positive.

### Mechanical Specifications:

- Dimensions (W x H x L): 4 x 1 x 3 inches (100 x 25 x 75 mm)
- Monitor Case Material: Stainless steel

### Applications:

- Satellite and Aerospace productions
- Equipment Clusters for IC Test and Packaging
- Semiconductors Productions
- Wafer Handling and Photolithography Equipment
- GMR Head Test and Packaging
- Wherever ESD and grounding are an Issue

### Application Example: Monitoring of Assembly Cluster Equipment

Many assembly machines consist of several parts which are not always grounded. Their ground connections may also be broken during maintenance, modifications, and even in normal use. GZ-1980-H can simultaneously monitor the ground connection of every single part of the entire tool to assure its compliance with the standards and its uninterrupted operation. GZ-1980-H provides external relay for equipment to stop in case of ground failures. A GZ-1980-H can serially connect up to 31 GZ-1980 & GZ-1950 monitors to form a network linked to a PC for remote central monitoring and management.



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