

Equipment Ground Continuous Monitor

GZ-1900

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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-1900 grounding monitor is a precision instrument designed for monitoring of the grounding on industrial equipment with multiple grounding points. Up to seven "secondary grounds" and one ultra-low resistance "main ground" can be monitored by one GZ-1900. The real-time status is displayed on the front panel using bicolor LED's.



GZ-1900 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

- Continuous monitoring of 1 main and 7 secondary equipment grounds
- Reliable ultra-low resistance monitoring: main ground resistance limit 0.4 Ohm
- ANSI/ESD S20.20-2007 compliant
- Adjustable alarm threshold
- Built-in external control interface

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
- Wafer Handling and Photolithography Equipment

Electrical Specifications

- Main ground resistance alarm limit: 0.4 +/- 10%
- Main ground sense current: 10 mA +/- 10%
- Secondary grounds resistance alarm limit: 10 +/- 10% (Selectable for 1/4/10/20)
- Secondary ground sense current: 0.175 mA +/- 10%
- Maximum open ground voltage: 100 mV under "open ground" conditions.
- Power supply: 7-15V DC 150 mA, 2.1mm coax plug, center positive.

- Equipment Clusters for IC Test and Packaging
- GMR Head Test and Packaging
- Semiconductors Productions
- Wherever ESD and grounding are an Issue