

3M™ Ground Master Equipment Ground Monitor

The Ground Master Equipment Ground Monitor can be used to monitor the ground impedance of metal ground connections of process tools in work areas including, but not limited to semiconductor, disk drive, flat panel, and electronic equipment manufacturing environments. The Ground Master Equipment Ground Monitor can be used to monitor up to eight points for metal ground within a tool. This monitor provides both visual and audible alarms. The Ground Master Equipment Ground Monitor includes fuses protection for each channel. Model CTC065-RT-WW has logic output signal. Model CTC065-5-WW has MODBUS output. The alarm level is set the same for all channels.

Applications

- Front-End Semiconductors
- Photolithography Equipment Wafer Handlers
- Back-End Semiconductor Tools
- GMR Head Testers
- Any Sensitive Equipment Locations
- Tool Clusters
- Medical Environments



Features

- Eight metal ground monitoring
- Adjustable impedance alarm level
- EMI monitoring on each ground
- Fuse protection for each ground
- Enable/disable for each ground
- Industrial network Interface
- Output to the host tool
- Audio and visual alarms
- Sound alarm on/off

Key Advantages

- Adjustable Alarm Threshold – The alarm threshold can be easily adjusted
- Fuses - Individual fuses for each line are implemented
- EMI – Ground Master monitors EMI on each ground and indicates EMI presence
- Output to the Tool – Model CTC065-RT-WW provides relay closure and logic signal to the tool that can shut it down when any of the grounds fail

Product Specifications

Properties	Value
Ground Impedance Monitor	
Number of Grounds Monitored	8 channels
Ground Impedance Alarm Level	1-10, 12, 14, 16, 18 and 20Ω (default 10Ω)
Visual and Audio Indication	Ground Impedance Pass/Fail LEDs for each channel Blinking LEDs indicates the EM presence when the ground has strong EMI voltage signal Power LED Communication LEDs (-5 model) Buzzer (Sound on/off switch)
Enable Switch	Each channel
Connectivity	
Relay Output (RT model only)	Three Outputs: Dry Contact, +12V Output, +5V typical Logic Level Output
Digital I/O Interface (-5 model only)	RS485
Data Connector	RJ45 Jack
General	
Power Supply	Universal: 100 - 240VAC, 0.5A, ~ 50/60 Hz Output: 12VDC, 1.5A
Dimension (approx.)	4.73" W x 3.5" H x 1.33" D (120 mm W x 90 mm H x 34 mm D)
Weight (approx.)	201g

Product Data Sheet

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