

3M™ Ground Pro Ground Integrity Meter Model CTM051

Proper grounding is crucial for the safe and uninterrupted operation of equipment. Proper grounding has become one of the most important concerns in facility and tool management. This device is not intended to be used to measure mains voltage.

The Ground Pro Ground Integrity Meter offers a suite of features designed to verify critical grounding parameters in any facility. The Ground Pro measures ground impedance in accordance with ANSI 6.1 standard. One of the key features of the Ground Pro is its data integrity—its proprietary technology allows it to provide accurate measurements of ground impedance on a working tool when ground noise is present, an area where most regular instruments fail.

The Ground Pro is an essential tool for anyone concerned with ensuring proper grounding of equipment during installation, maintenance and throughout regular use.

Applications

- Front-End Semiconductors
- Photolithography Equipment
- Back-End Semiconductor Tools
- Disk Drive Manufacturing
- Surface Mounted Assembly
- Industrial Robotics
- Tool Clusters

Features

- ANSI 6.1 compliant measurements
- Auto-zero of test lead impedance
- Broadband EMI measurements
- Signal on ground
- Low-battery Indicator
- Audio alarms

Key Advantages

- ANSI 6.1 compliant
- Accurate readings in a noisy environment
- EMI – High-frequency noise on a ground increases the probability of equipment malfunction and downtime. EMI can also provide dangerous exposure to sensitive components. The Ground Pro measures high-frequency noise on grounds in a broad frequency range—both average and envelope peak signals.



Properties	Value
Ground Impedance	
Range	Range: 0.000 - 1.999 Ohm, 2% + 0.01 Ohm Range: 00.00 - 19.99 Ohm, 1% + 0.05 Ohm Range: 000.0 - 199.9 Ohm, 1% + 0.5 Ohm Range: 0000 - 1999 Ohm, 1% + 5 Ohm Automatic auto-zero for test leads
EMI (Noise on Ground)	
Bandwidth	9 kHz - 450 MHz
Measurement Range	10mV ... 5Vpeak 80dBuV ... 134 dBuV
Measurement Type	Average, Peak
Voltage on Ground	
AC (50-500 Hz)	0.001-10V RMS
DC	0.001-10V
General	
Power	Power by battery, 9V Alkaline
Dimension (approx.)	4.5" x 2.4" x 1.1" (114 mm x 60 mm x 28 mm)
Weight (approx.)	223 gm

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