

3M™ Workstation and Personal Grounding Monitors

(formerly Credence Technologies)



3M™ SOLDERING IRON CONTINUOUS MONITOR WORKSTATION

Features:

- Overvoltage (Electric Overstress - EOS) continuous monitoring of each board
- User-adjustable alarm threshold
- Transient signal detection
- Instant feedback to operators
- Identification of exposed boards
- Sound and visual alarms
- Low and High ranges 0...±5V and 0...±50V

Applications:

- Semiconductor Mfg.
- Electronic Assembly
- Repair and Service
- Military/Aerospace
- Medical Environment
- Wherever sensitive components are being handled.



Iron Man™



Iron Man™ Plus

Iron Man™

3M™ Iron Man™ Soldering Iron continuous monitor instantly alerts an operator of any overvoltage on a circuit board caused by a soldering iron, a poorly-operated operator or tool. In addition, every exposed board is instantly identified. 3M™ Iron Man™ watches for overvoltage on every board in process. Miniature and easy-to-use and install, Iron Man™ belongs on every bench.

- Dimensions: 2.4"x.85"x1.63" (WxHxL)

Iron Man™ Plus

Just like the Iron Man™ soldering station, only the Iron Man™ Plus adds wriststrap monitoring for dual-wire wriststraps. It monitors both proper operator connection (resistance) and operator body overvoltage.

MOUSER STOCK NO.	3M Part No.	Description	Price Each	
			1	5
517-CTC330-WW	CTC330-WW	Iron Man™ Soldering Iron Monitor, Universal Power adapter included	132.82	126.18
517-CTC331-WW	CTC331-WW	Iron Man™ Plus W/S Monitor	203.38	193.22
517-CTA251	CTA251	Replacement Terminal Board for Monitor	11.71	11.06

3M™ WS AWARE® DUAL WORKSTATION CONTINUOUS MONITOR FOR CRITICAL ENVIRONMENTS

3M™ WS Aware workstation monitor uses the latest advances in digital signal processing to create an ESD-safe environment for your critical applications. Optional 3M™ Big Brother® terminal detects the operator's presence within arm's reach from the workstation. If this operator is not grounded, the WS Aware will raise an alarm.

- Dimensions: 3.2"x2.25"x1.30"

Features:

- True dual continuous workstation monitor for critical environments
- Wriststrap monitor for two operators - resistance and body voltage
- Two metal/dissipative grounds monitoring
- Monitoring of noise (EMI) on ground
- Ground enable/disable
- Replaceable board with Jacks
- Sound and visual alarms
- Adjustable alarm thresholds
- Output to Facility Monitoring System

Applications:

- Hard Disk Drive Mfg.
- Semiconductor Mfg.
- Electronic Assembly
- Industrial Automation
- Repair and Service
- Military/Aerospace
- Robotics
- Medical Environment & Facilities
- Wherever grounding is a concern.



MOUSER STOCK NO.	3M Part No.	Description	Price Each	
			1	5
517-CTC061-3WW	CTC061-3-WW	Dual Workstation Monitor	489.44	464.97
517-CTC061-3BBWW	CTC061-3-BB-WW	Dual W/S Monitor with Big Brother Terminals	548.80	521.30
517-CTA245	CTA245	Repl Board w/Jacks for Monitor	13.98	13.20

3M™ GROUND MONITORS

Features:

- Continuous ground monitoring for up to 3 points
- Adjustable alarm threshold
- Ground enable/disable
- Small, space saving design
- Sound and Visual alarms
- Tool connectivity
- Compliant with ANSI 6.1 and ANSI/ESDA S20.20
- Dimensions: .85"x2.4"x2.5" (HxWxL)

Applications:

- Hard Disk Drive Mfg.
- Semiconductor Mfg.
- Electronic Assembly
- Industrial Automation
- Military/Aerospace
- Robotics
- Medical Environment and Facilities
- Wherever grounding is a concern.



Ground Man™



Ground Man™ Plus

Ground Man™

Capable of monitoring up to 3 individual ground points, 3M™ Ground Man™ Monitor shows the status of each ground - which ones are being monitored with a Pass or Fail status for each. It provides a logic signal to the tool in case of ground or power failure so it will shut down in such unsafe conditions.

Ground Man™ Plus

Just like the Ground Man™ Ground Monitor, only the Ground Man™ Plus Ground Monitor adds wriststrap monitoring for dual-wire wriststraps. It monitors both proper operator connection (resistance) and operator body voltage.

MOUSER STOCK NO.	3M Part No.	Description	Price Each	
			1	5
517-CTC333-WW	CTC333-WW	Ground Man™ Tool Ground Monitor	178.11	169.19
517-CTC334-WW	CTC334-WW	Ground Man™ Plus Tool Ground & Wriststrap Monitor	218.12	207.21
517-CTA251	CTA251	Replacement Jack Board for Monitor	11.71	11.06

3M™ WORKSTATION MONITOR CHECKER

The 3M™ Workstation Monitor Checker was designed specifically to verify the proper operation of your dual wrist strap and ground monitors.

Features:

- 3.5mm Jack for Dual Wrist Strap Monitor Test
- Banana Jack for ground Test and reference grounds
- EMI Button and LED for metal grounds
- Pass/Fail Limits for wrist straps
- High (fail limit) switch for metal ground
- Low (pass limit) switch for metal/soft grounds
- Threshold setting switches
- Body voltage set potentiometer and test button

Applications:

- Hard Disk Drive Mfg.
- Semiconductor Mfg.
- Electronic Assembly
- Industrial Automation
- Military/Aerospace
- Robotics
- Medical Environment and Facilities
- Wherever grounding is a concern.



MOUSER STOCK NO.	3M Part No.	Description	Price Each
517-CTE701	CTE701	Workstation Monitor Checker	890.40

3M™ GROUND MASTER® RT GROUND MONITOR

Capable of monitoring up to 8 individual ground points, 3M™ Ground Master® RT shows the status of each ground: a Pass, Fail, Pass + EMI and not monitored.

Features:

- Continuous ground monitoring for up to 8 points
- Adjustable alarm threshold
- Noise (EMI) monitoring for each ground
- Safety protection for each ground
- Enable switches for each ground
- Tool connectivity
- Can be powered by the tool
- 24V DC

Applications:

- Hard Disk Drive Mfg.
- Semiconductor Mfg.
- Electronic Assembly
- Industrial Automation
- Military/Aerospace
- Robotics
- Medical Environment and Facilities
- Wherever grounding is a concern.



MOUSER STOCK NO.	3M Part No.	Description	Dim. (in.)	Price Each
517-CTC065-RT	CTC065-RT	Ground Monitor RT	4.5"x3.6"x1.1"	650.00

3M™ GROUND PRO® GROUND INTEGRITY METER

This meter gives equipment and facility engineers and technicians the ability to accurately and easily measure ground parameters, including connectivity, noise and parasitic voltage on ground.

Features:

- Accurate ground impedance measurements
- Ground Noise (EMI) measurements
- AC and DC voltage on Ground
- Resolution down to 1 milliohm
- Compact and lightweight
- Test Leads autozero
- User friendly
- Easy to read, back-lit display
- ANSI 6.1 and ANSI/ESDA compliant
- Power: Battery 9V

Applications:

- Hard Disk Drive Mfg.
- Semiconductor Mfg.
- Electronic Assembly
- Industrial Automation
- Military/Aerospace
- Robotics
- Medical Environment and Facilities
- Wherever grounding is a concern.



MOUSER STOCK NO.	3M Part No.	Description	Dim.: in.	Price Each
517-CTM051	CTM051	Ground Integrity Meter	4.5"x3.6"x1.1"	1170.12

3M™ SCANEM® NEAR FIELD PROBES KITS

These probes are the most versatile, affordable instruments for detecting, locating and measuring electromagnetic emissions. They reliably predict EM behavior and to locate emission sources in a matter of seconds. ScanEM-C probes are used for EMC analysis on a PCB level while the ScanEM-QC probes are used for assessment of electromagnetic compliance of the entire product.

- Each Kit contains E & H Field Probe
- Fits in the palm of your hand

CTK019 Shown



MOUSER STOCK NO.	3M Part No.	Description	Price Each
517-CTK015	CTK015	6.18" ScanEM-C Near-Field Probes	786.97
517-CTK019	CTK019	7.31" ScanEM-QC Near-Field Probes	858.75
517-CTA101	CTA101	Accessory Cable for ScanEM probes	107.52

3M™ EMC TRAINING KIT

This kit contains a set of 3M™ ScanEM®-C near-field probes, a step-by-step guide, EMI Demo fixture, a cable, and adapters in a case.

Features:

- Electric and magnetic fields
- Effects of ferrites and shielding
- Current in ground planes
- Identify and pinpoint exact sources of EMI

Applications:

- Schools and Universities
- Product design and development
- EMC test and diagnostics
- Signal Integrity Analysis
- EMI mitigation



MOUSER STOCK NO.	3M Part No.	Description	Price Each
517-CTK031	CTK031	EMC Training Kit	970.45