3M™ Iron Man Workstation Monitors

3M Iron Man Workstation Monitors measure voltage directly on circuit boards during assembly. If there is any electrical overstress (EOS) on a board, the operator is alerted with both visual and audio alarms. The monitors are small enough to fit on every workbench where assembly or service occurs.

Simply connect the overvoltage input to any ground plane connection of the board or to a mat on which the board is placed, with the supplied alligator connector. When there is a dangerous EOS exposure, the operator will be instantly alerted. Additionally, the board itself will be reliably grounded via a 1 megohm resistor inside the monitor.

The 3M Iron Man Plus Workstation Monitor CTC331 adds complete monitoring of the entire workbench, including wrist strap and dissipative mat monitoring. The operator is monitored for proper connectivity and for excessive body voltage. The dissipative or conductive mat is monitored for its proper connectivity. A unique replacement wrist strap jack does not require soldering, which helps improve reliability and helps reduce the cost of ownership.

Features
• Electric overstress monitoring of every board.
• Alarms allow operators to immediately respond to electric overstress.
• Isolation of exposed assemblies.
• Complete workbench coverage.

CTC330 and CTC331 Properties

Item	Iron Man CTC330 Typical Properties	Iron Man Plus CTC331 Typical Properties
Alarm Threshold Ranges	0 – ±5 V; 0 – ±50 V	0 – ±5 V; 0 – ±50 V
Threshold Adjustment	Potentiometer	Potentiometer
Threshold Range	Range selected by jumper	Range selected by jumper
Wrist Strap		Dual, 3.5 mm plug
Operator's Resistance Alarm		Yes
Operator Body Voltage Alarm		Yes
Resistance to Ground		Yes
Visual	LED	LED
Audio	Buzzer	Buzzer
Dimensions	0.85 H x 2.4 W x 1.63 in. L (22 x 61 x 42 mm)	0.85 H x 2.4 W x 2.56 in. L (22 x 61 x 63 mm)
Power	External adapter included	External adapter included

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