

# Ohm Metrics CM2800 Series

Networkable Dual Wire Resistance Monitor

## Optimal Ground Protection

The Ohm Metrics' CM2800 Series dual conductor workstation monitor provides complete ESD protection by grounding and providing continuous, uninterrupted monitoring of most grounding parameters of a operators, workbench and in a tool. Utilizing low-voltage resistive loop technology, and dual conductor ground products, the CM2800 is an extremely sensitive and reliable ground monitoring instrument that uses the operator's skin resistance to determine if the system is operating properly.



CM2800 Series  
Workstation Monitor



CM2800-D  
Monitor Digital Display

## Performance to your Specifications

The CM2800's alarm settings can be reconfigured quickly and easily with the PC software **CM2800-SEE**. Operator Resistance, Operator Voltage, Work-surface Resistance, Operator Presence Check (OPC) and Resistance of Equipment alarms can be enabled/disabled and limits selectable to user specifications. The alarm status are displayed using tricolor LED's on the front panel of the monitor to inform operators on the line. Digital values of the resistance limits can be viewed in real-time with the LCD display module **CM2800-D**, so that the operator can be alerted and respond to grounding problems quickly.

## Real Time Central Monitoring

The CM2800 is network ready and can easily be connected to other workstation monitors and a computer using the high speed network router, CM2800-H. The host computer is transformed into a command center with the software CM2800-BOSS SEE, a central monitoring program that shows real time grounding results and allows for adjustment of alarm parameters of up to 4096 workstations. An entire assembly line's ESD protection can be remotely monitored and adjusted with one computer.

### Features

- Network with PC and other CM2800 monitors
- Programmable Alarm thresholds
- Ultra Low Voltage

### Benefits

- Remotely control alarm parameters and view real time data on a PC
- Customize Settings to your Unique Specifications
- Perfect for "Class 0" Applications

This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate. However, it is understood and agreed by the users of this document that we will accept no liability for the conclusions reached. Users of this document may therefore wish to perform additional testing before determining that products mentioned are suitable.



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Outstanding Alternatives in Static Control

# Ohm Metrics Resistance Monitor

## Product Specifications

Wrist-strap resistance alarm limit:  
Maximum wrist-strap operator voltage:

Operator Voltage Detection:

Mat (soft ground) resistance alarm limit:  
Maximum mat (soft ground) voltage:  
Tool (hard ground) resistance alarm limit:  
Maximum tool (hard ground) voltage:  
Maximum tool (hard ground) current:  
Configurability:

RJ-485 Socket IN/OUT Communication:

DC Power Supply:  
AC Input:

User programmable from "Low" 750K $\Omega$ ~2.4M $\Omega$  "High" .8M $\Omega$ ~35M $\Omega$   
50 mV max with 10 M max operator resistance, less than 100 mV under wrist strap open fault conditions.

User programmable to detect a voltage on the operator relative to ground, from +/- 1 volt up to +/- 5 volts in increment of 1 volt.  
User programmable from 1M $\Omega$  to 140M $\Omega$ .

Less than 50 mV even under fault conditions.

User programmable from 2 $\Omega$  resistance to 20 $\Omega$  resistance.

Less than 50 mV even under fault conditions.

Less than 0.2 mA.

Every monitored parameter can be programmed by a PC-based program to be enabled / disabled or to set the alarm limit to a specific threshold.

Built-in RJ-485 IN and OUT communication ports to support multiple units drop-line internetworking.

8-12 V, 100mA.

100-240 VAC, 1A. (The excess current capacity is reserved for multiple units interlinking.)

## Part Numbers

CM2800	Digital Configurable Dual Conductor Workstation Monitor (flex limits & flex alarm items), network-ready, OP/V/MAT/TOOL, OPC
CM2815	Digital Configurable Dual Conductor Workstation Monitor (fixed limits and fixed alarm items), network-ready, OP/MAT
CM2816	Digital Configurable Dual Conductor Workstation Monitor (fixed limits and fixed alarm items), network-ready, OP/MAT/TOOL
CM2820	Digital Configurable Dual Conductor Workstation Monitor (fixed limits & flex alarm items), network-ready, OP/V/MAT/TOOL, OPC
CM2830	Digital Configurable Dual Conductor Workstation Monitor (flex limits & fixed alarm items), network-ready, OP/V/MAT/TOOL, OPC (Operator-Presence-Check)
CM2840	Digital Configurable Dual Conductor Workstation Monitor (fixed limits and fixed alarm items), network-ready, OP/V/MAT/TOOL
CM2800-D	Display Module for CM2800 (w/ x4 built-in Relays)
CM2800-H	Network Router for CM2800(supports wireless LAN connection)
CM2800-SEE	Hardware Management Software for CM2800(with a GZ-485SEE)

\*The CM2800 is manufactured professionally for Transforming Technologies by Megalin Source.

### About Transforming Technologies

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.

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