

Ohm Metrics CM1600 Dual Conductor Resistance Monitor

Dual Conductor Workstation Monitor

The Ohm Metrics CM1600* dual conductor workstation monitor continuously checks two (2) operators and two(2) work surface ground connections. When a person is wearing a wrist strap, the monitor observes the resistance of the loop, consisting of a wire, a person, a wrist-band, and a second wire. If any part of the loop should open (become disconnected or have out of limit resistance), the circuit will go into the alarm state. An important feature of the Dual Wire Wrist Strap is that even if one conductor is severed, the operator has reliable path-to-ground with other wire. The CM1600 packaged in a stainless steel case with remote jacks.

The CM1600 is an extremely sensitive and reliable ground monitoring instrument. Audible and visible alarms are triggered if the operator's resistance exceeds 35 megohm (factory default). Low resistance can also triggers an alarm event. Mat alarm limits are set at 100 meg ohm.

Meets or exceeds requirements of ANSI ESD-S20.20 and ESDA Standard 1.1-2006



Each monitor uses a Dual Conductor wrist strap and coil cord, WB5000, WB7000 or WB2850 from Transforming Technologies, although other compatible wrist strap sets may be substituted. Dual conductor wrist straps enable efficient, accurate resistance monitoring and grounding redundancy.



Model CM1600
Dual Conductor
Workstation Monitor



Hands Free Grounding: Dual snap coil cords CC2080 and CC2085 are perfect for grounding and monitoring mobile personnel. When used with an appropriate ESD garment, the cord frees the operator's hands and improves mobility. Used with most industry standard dual conductor resistance monitors

*The CM1600 is manufactured professionally for Transforming Technologies by Megalin Source.

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.

Distributed By:
Signal Test, Inc
1529 Santiago Ridge Way
San Diego, CA 92154
Tel. 1-619-575-1577 USA
www.SignalTestInc.com
Sales@SignalTestInc.com

Ohm Metrics Resistance Monitor

Product Specifications

Dimensions: 4" W x 3" D x 1" H (10.16 x 7.62 x 2.54 cm)

Weight: 6.8oz

Unit monitoring capabilities

CM1600 2 wrist straps/persons + 2 mats

Performance Specifications

Wrist Strap Low Resistance Alarm Limit: 1.8 megohm.

Wrist Strap High Resistance Alarm Limit: 35 meg ohm.

Mat (soft ground) Resistance Alarm Limit: 100 meg ohm.

Typical Operator Voltage at 10M:

Imposed Voltage on Body:

max 0.1V (100mV) at standard version; can be preset at factory to max 0.025V (25mV) or max 0.8V (800mV) per customer request

Max Mat Voltage (open circuit): 0.2V (200mV)

Max Mat Voltage (alarm at 100M): 0.15V (150mV)

Max Tool Voltage (open circuit): 0.01V (10mV)

Max Tool Voltage (alarm at 10 Ohm): 0.4mV

Communication:

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

DC Power Supply:

7-15 VDC, 100mA.

AC Input:

100-240 VAC, 1A.

Temperature limits:

50° F (10°C) to 122° F (50°C)

Adjustments:

No serviceable components; see periodic verification tools

Unit Accessories

CM-Cable

RJ-485 communication Cable

FM1515

Work Surface Ground Cable

FM1515CM

Monitor Ground Cable

FM1515NR

Monitor To Work Surface Cable

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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Transforming Technologies, LLC

3719 King Road.
Toledo, OH 43617

Phone: 1.419.841.9552

Fax: 1.419.841.3241

www.transforming-technologies.com

Outstanding Alternatives in Static Control