

Ohm Metrics CM400 Series Continuous Monitors

Single Wire Constant Ground Monitors

Continuously verifying the integrity of the ground system is critical to an effective ESD protection program. Using specialized impedance sensing technology, the CM400, CM410 and CM420 single wire monitoring products continuously check the total ground loop, including the operator, the wrist band and the coil cord. The systems are compatible with most wrist straps.

Models CM400
CM410
CM420
Workstation Monitors



Reliable, Repeatable Results

Accuracy and reliability are improved with the impedance technology incorporated into our constant monitors. False alarms disappear and adjustments are not necessary. Powered and grounded by an AC adapter, the system is fully automatic and begins sensing when a coil cord is plugged into the unit. A green light indicates a safe connection and a red light and audible alarm communicate an unsafe connection.

Continuous Monitors pay for themselves

ESD-S1.1 notes that it is not necessary to test wrist straps daily when using constant monitoring systems. Higher value-added products especially benefit from the certainty of continuous monitoring. The CM400, CM410 and CM420 are perfect solutions for assuring workstation grounding protection.



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 Continuous Monitors

Product Specifications

Performance Specifications

Wrist strap open circuit voltage	0.7 VDC, ± 0.1 VDC @ < 2mA
Mat open circuit voltage	5.0—7.5 VDC
Alarm indicators	Visual, audible (green: safe, red: unsafe)
Alarm set point	
Wrist strap	38 to 87pF (human body); with 1 megohm wrist strap resistance
Mat	6.5 megohm

Unit monitoring capabilities

CM400	One wrist strap/person
CM410	One wrist strap + mat
CM420	Two wrist straps + mat
CAL400, CAL410, CAL420	Periodic verification tools for units

Dimensions/Weight

CM400	0.88" H x 1.75" W x 1.25" D (2.24 x 4.45 x 3.18 cm) 7.4 oz
CM410	1.00" H x 2.40" W x 2.30" D (2.54 x 6.10 x 5.84 cm) 7.8 oz
CM420	1.00" H x 4.00" W x 2.40" D (2.54 x 10.16 x 6.10 cm) 12.4 oz

Mounting Mounting materials included

Power Supply

Input	120VAC—60hz
Output	12VDC, 200mA

Audible Alarm	10 beeps (max); 5 seconds
Adjustment	No adjustments required

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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