



**TRANSFORMING TECHNOLOGIES**  
*OUTSTANDING ALTERNATIVES IN STATIC CONTROL*

***Ohm Metrics™***

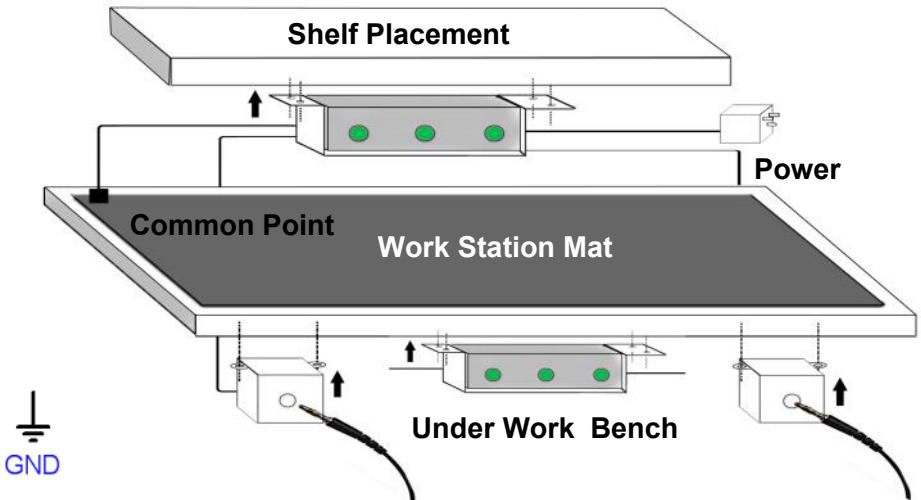
**Continuous Workstation Monitors  
Model CM420**



**Instruction Manual**

## CM410 Installation Diagrams

- 1) Mount monitor under bench area (use included screws or Velcro).
- 2) Plug wire from the Common Ground Point to the Bench System Ground located on the back of the monitor.
- 3) Connect each operator wrist strap jacks to back of the monitor labeled "Right and Left Wrist Strap".
- 4) Plug AC power supply to monitor and grounded 110v outlet (monitor grounded through AC Adapter).
- 5) Operator LED should be RED and alarm will sound 8-10 beeps.
- 6) With wrist strap worn correctly while plugged into monitor, LED will go from RED to GREEN when in use indicating



# Operation

Monitoring begins when the coiled cord of the wrist strap is plugged into the monitor or remote jack. The status of a wrist strap resistance is indicated by a the bicolor LED and audible Alarm:

## **Stand-by indication.**

If the wrist strap is removed or not being worn but is still plugged into monitor, an audible alarm will sound for 4-6 seconds, and the “OP” (operator) led will be **will be blink RED**.

## **Normal indication.**

For normal operating resistance “OPER”/”BENCH” led will be **GREEN**.

## **High alarm.**

If the operator wrist strap or worksurface mat’s resistance is higher than maximum, the corresponding led will turn **RED** and audible alarm will sound.

## **Calibration and Verification**

The CM420 is factory calibrated and fixed. It does not require re-calibration. It is recommended to verify proper operation with the CM420PV verification unit available from Transforming Technologies.

# Product Specifications

Wrist strap open circuit voltage	0.7 VDC, $\pm 0.1$ VDC @ $< 2$ mA
Alarm indicators	Visual, audible
Alarm set point	38 to 87pF (human body); with 1 meg ohm wrist strap resistance
Unit monitoring capabilities	One person and one mat
Periodic Verification Units	CM420PV: NIST Calibrated Periodic verification tool for CM410
Dimensions/Weight	1.00" H x 4.00" W x 2.40" D (2.54 x 10.16 x 5.84 cm) <b>12.4 oz</b>
Mounting	Mounting materials included
Power Supply	Input: 120VAC—60hz, Output: 12VDC, 200mA
Audible Alarm	10 beeps (max); 5 seconds
Adjustment	No adjustments required

## Service and Warranty

Transforming Technologies, LLC provides a limited warranty for the Model CM400, CM410 and CM420. All new products are guaranteed to be free from defects in material and workmanship for a period of one (1) year from the date of shipment. Liability is limited to servicing (after evaluating, repairing or replacing) any product returned to Transforming Technologies. The company does not warrant damage due to misuse, neglect, alteration or accident. In no event shall Transforming Technologies be liable for collateral or consequential damages. To receive service under warranty, please contact Transforming Technologies.



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