

CM2015PV Instructions

CM2015PV Constant Monitor Verification Tool

The CM1600, CM1601, CM1602, CM2815, CM2800 ESD constant monitors are factory calibrated and it is recommended to verify calibration with the CM2015PV periodic verification. The following procedure will verify wrist strap and work surfaces. *Please note that some models of the Ranger Series Constant Monitors has adjustable alarm limits. The procedure is for the default settings. Not all models monitor work surfaces, and you may skip that procedure.*

Wrist Strap Verification Procedure

1. Plug the CM2015PV's main lead (Male Phono Plug) to the OP1 remote of the workstation monitor.
2. To verify that the constant monitor's resistance limits, turn the dial of the CM2015PV to each designated resistance in Table 1 below and record the constant monitor reaction. If the resistance of the wrist strap is less than 1.8M Safe, the "OP" led will be yellow and alarm will sound. For normal operating resistance of 1.8M Safe through 35M Safe, the "OP" led will be green. If the wrist strap resistance is higher than 35M High, "OP" led will be red and audible alarm will sound.

Table 1	
Resistance Setting	Typical Result
1.8M LOW	Yellow - Alarm
1.8M SAFE	Green
35M SAFE	Green
35M HIGH	Red - Alarm

3. Repeat procedure with PVU plugged into OP2 (if applicable).

Work Station Verification Procedure

1. Plug the two test leads in the green inputs on the top of the CM2015PV and attach the alligator clips to the ends of the test leads.
2. Detach the Mat Ground Cord from the mat, and clip the alligator clip to the stud on the underside of the head of the cable.
3. Attach the other test lead to the snap on the mat.
4. To verify that the mats resistance limits, turn the dial of the CM2015PV to each designated resistance in Table 2 and record the constant monitor reaction. For normal operating resistance of 0 Ω - 100M Safe, the MAT led will be green. If MAT resistance is higher than 100M High, the Mat led will be red and audible alarm will sound.

Table 2	
Resistance Setting	Typical Result
100M HIGH	Red Alarm
All Other Values	Green

6. Repeat procedure with the 2nd work surface if connected.

If the monitor did not pass as per the test procedure call Transforming Technologies at (419) 841-9552 .