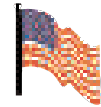


# Static Control Systems Analyzer Recommended Set-Up



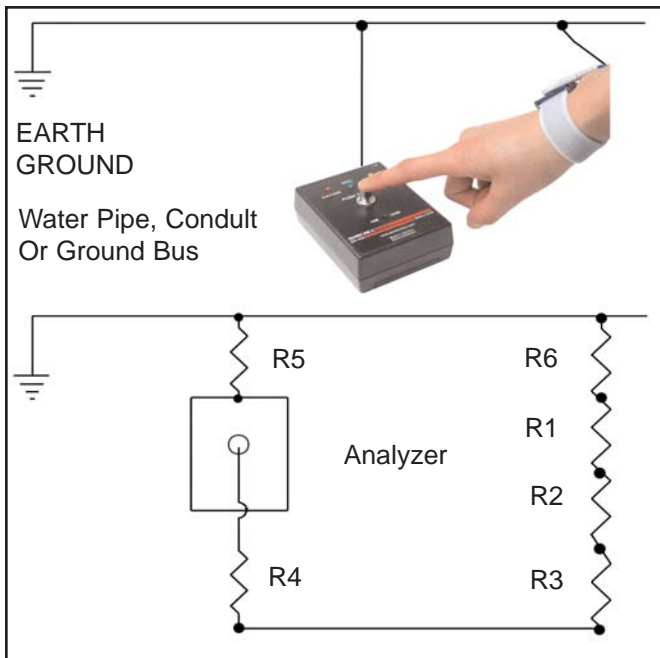
Made in America



Figure 1. 62150 Static Control Systems Analyzer

Resistance R1 through R6, forms a series-connected closed loop. If this series resistance is greater than 0.8 megohms and less than 10 megohms or 100 megohms, depending on range switch position, a "safe" condition will be indicated.

It is recommended that the analyzer ground and the operator wrist cord ground not be a common connection. By utilizing separate grounding points, the integrity of the ground connections is also being checked during analyzer operation.



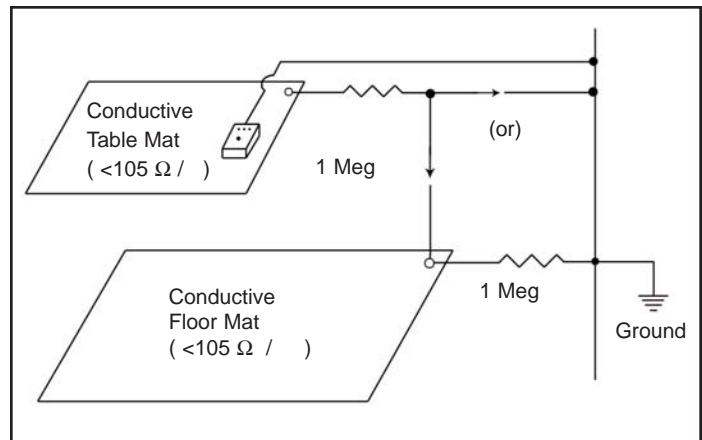
R1= 1 Megohm resistor  $\pm 5\%$  molded in ground cord

R2= Skin contact to wrist band may be high on some operator's up to 1 Megohm

R3= Operator's body resistance usually low about 1K

R4= Contact resistance, analyzer ground cord to ground should be almost 0 if good connection

R6= Contact resistance, operator's cord to ground should be almost 0 if good connection



By pushing the button on the EN425, an operator can check the wrist band, skin contact of wrist band, coil cord, "CONDUCTIVE" table top, "CONDUCTIVE" floor mat, heel straps, or any series combination of these items to a maximum of 10 Meg. Ohms or 100 Meg. Ohms. \*

By definition, the term "CONDUCTIVE" used in the following procedure, means equal to or less than 105 Ohms per square.

Refer to diagram above.

1. To check "CONDUCTIVE" Table Mat:
  - A. Place hand flat on mat while pressing Push-To-Test button with other hand. (Operator NOT wearing wrist cord) - safe should be indicated.
2. To check "CONDUCTIVE" Floor Mat:
  - A. Use procedure for testing table mat - OR
  - B. Have operator, wearing "CONDUCTIVE" heel strap stand on floor mat and press Push-To-Test button. (Operator NOT wearing, wrist cord) - safe should be indicated.

### 3. Automatic Low Battery Indicator

When Test button is pushed, red and yellow LED's on at the same time indicate the battery voltage is less than 7 volts and should be immediately replaced for proper operation.

NOTE: If "CONDUCTIVE" table mat cord is connected to the "CONDUCTIVE" floor mat (Shown as "OR" condition above), use procedure 2B - safe should be indicated.

\* Depending on range switch position

## Technical Support

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**NOTE:** Unauthorized servicing or modifications to your monitor will void the product warranty and may create dangerous conditions. Servicing should be performed only at the factory, or by a Semtronics approved technician.

### LIMITED WARRANTY

Semtronics expressly warrants that for a period of one (1) year from the date of purchase, Semtronics 62150(EN425) will be free of defects in material (parts) and workmanship (labor). Within the warranty period, a unit will be tested, repaired, or replaced at our option, free of charge. Call Customer Service at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for Return Material Authorization (RMA) and proper shipping instructions and address. Include a copy of your original packing slip, invoice, or other proof of date of purchase. Any unit under warranty should be shipped prepaid to the Semtronics factory. Warranty replacements will take approximately two weeks. If your unit is out of warranty, Semtronics will quote repair charges necessary to bring your unit up to factory standards. Call Customer Service at 909-627-8178 for proper shipping instructions and address. Ship your unit freight prepaid.

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