

**WT-1200 DUAL OPERATOR WORKSTATION MONITOR
(FOR SINGLE WIRE WRIST STRAPS)****I. Description**

The WT-1200 monitor system continuously monitors two wrist straps and work surfaces. This flexible system has the capability to be used with single wire wrist straps. Each unit also includes a wrist strap test function.

II. Contents

- * WT-1035 low voltage monitor with 2 cords for mat connection and an UL listed 12V transformer
- * WT-1050 adapter with 2 remote ground blocks

III. Specifications:

Audible alarm: 90 dB
Power source: 12V UL listed AC/DC transformer
Test voltage: 5 volts
Test current: 5 μ A
Tolerance: \pm 10%

A. Personnel grounding with WT-1050 resistance adapters:

“SAFE” - \leq 3 megohms
“HI” - $>$ 3 megohms

Wrist strap testing with WT-1050:

“Fail” - $<$ 800K ohms or \geq 2 megohms (Note: fail will be indicated by alarm and lit LED marked “HI” if wrist strap is either below or above “Safe” limits). “Safe” - 800k ohms to 2 megohms

B. Work surface monitoring:
“SAFE” - $<$ 3.7 megohms

IV. Setup for work surface

A. Monitoring for mats with snap-to-snap resistance $<$ 3.7 megohms:

Attach light mat connection cord from the monitor to a snap on work surface 1 and black mat connection cord to a snap on work surface 2.

Connect standard work surface ground cords (not included with monitor) to ground.

B. Monitoring for mats with snap-to-snap resistance $>$ 3.7 megohms:

Attach snaps on mat connection cords to auxiliary cord. Connect auxiliary cord to ground. Note that even though the work surface monitoring function is not utilized, failure to ground the two mat connection cords will result in an “alarm” state. This auxiliary cord is not included. Please contact us if you need it.

C. Monitoring a single work surface:

This monitor is designed for two work stations. To use for a single work surface the unused mat connection cord must be bypassed or a constant mat alarm state will exist. Attach the snap on unused mat cord to an auxiliary cord (available from Static Technologies Corp.). Connect auxiliary cord to ground.

V. Set-up

A. See page 4, figure 4 for a diagram of proper set-up using the WT-1035 with WT-1050 Adapter.

B. Fasten the adapters in a convenient location on the underside of the workbench. Plug the light colored from the convertor into the light colored phone jack on the back of the WT-1035 monitor and place the black cord into the black phone jack.

C. Match the wrist strap ground cord with the same color mat connection cord on the monitor. Light colored wrist strap and worksurface ground cords are for operator #1, black cords are for operator #2.

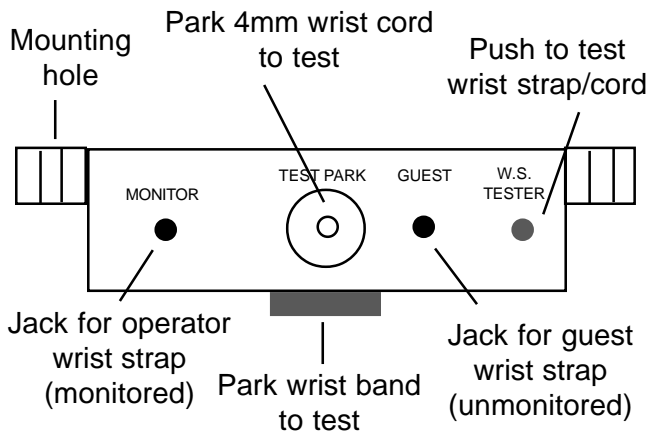


Figure 1: Front panel of WT-1050 adapter

VI. Wrist strap test

We recommend each wrist strap be tested daily before use.

A. Fasten cord to band and place elastic band on the metal clip on bottom of converter. Inside of band must make contact with the metal of the clip.

B. Insert banana plug of wrist cord into monitored jack of the WT-1050 adapter. The alarm will signal at this point. Push the “W. S. Test” button on the right side of the adapter. If the wrist strap is working properly the alarm will stop and the appropriate green LED marked “SAFE” on the WT-1035 will have a steady light.

Note: The WT-1035 can be used with single or dual wire wrist straps based on adapter chosen. LED read-out will vary for system in use. When used with WT-1050 adapter, failure of the wrist strap on either upper or lower limits will result in an audible alarm and the red LED marked “HI” to light up.

C. If the alarm continues, detach wrist band from cord, snap cord onto the center snap marked “TEST PARK” and repeat the test. This will indicate whether the failure is in the band or the cord. Note this unit will only accept 4mm snaps for the wrist cord test.

VII. Personnel monitoring

A. Put the wrist strap on and insert the banana plug into the monitored (left) jack of the converter.

B. If the alarm sounds make sure wrist strap is not broken (Step VI “Wrist strap test”). If wrist strap is not broken but alarm state exists, the monitor requires adjustment. Insert a small slotted screwdriver into the screw on back of the monitor. Turn screw counterclockwise just until alarm stops. Verify setting by removing wrist strap from wrist. Alarm should sound.

VIII. Display/Alarm for monitoring

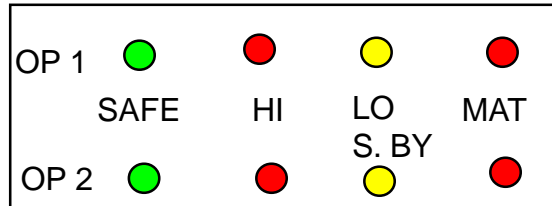


Figure 2. Front panel of WT-1035 monitor

Top LEDs are for operator and mat 1 (light colored cords) and bottom LEDs are for operator and mat 2 (black cords).

A. Green “SAFE” LEDs

Flashing green - corresponding mat(s) properly grounded - wrist strap(s) not in use

Steady green “SAFE” - corresponding operator(s) and mat(s) properly grounded

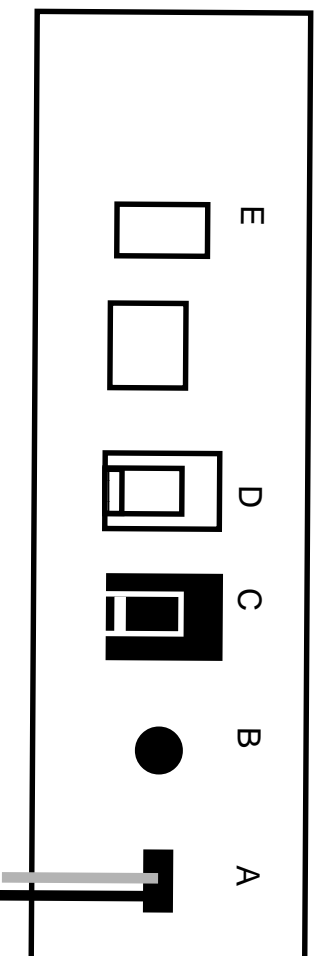
B. Red “HI” LEDs:Steady red LED and intermittent alarm – corresponding operator(s) resistance to ground is above limits of adapter (3 megohms)

C. Amber “LO / S.BY” LEDs: Does not apply for WT-1200 system. This LEDs is used for WT-1800 dual wire wrist strap system.

D. Red “MAT” LEDs

Steady red LED and intermittent alarm - corresponding mat(s) not properly grounded or above range limits (3.7 megohms) of monitor.

All statements, technical information and recommendations related to the seller’s products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before using the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.



Note:

- A = Mat Connection Cords
- B = Power Connection for 12V DC transformer
- C = Operator # 2 modular connection (black cord)
- D = Operator # 1 modular connection (light colored cord)
- E = Toggle switch for selecting upper end limits for dual wire resistance wrist straps. Up position for 35 megohms. Down position for 10 megohms.

Figure 3: Back Panel of WT-1035 Low Voltage Work Station Monitor

Figure 4: Layout for WT-1035 Low Voltage Work Station Monitor with WT-1050 Adapters

